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Vol. VII DECEMBER 1923 No. 2

THE HAMILTON COLLEGE BULLETIN

ANNUAL CATALOGUE

ONE HUNDRED AND TWELFTH YEAR

1923-1924

CLINTON, N. Y.
PUBLISHED BY THE COLLEGE
1923

Vol. VII DECEMBER 1923 No. 2

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Published by the College four times a year, in November, December, April, and July. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized September 11, 1918.

COLLEGE CALENDAR

First Semester, 1923–1924

1923

Sept. 20 Thursday, 8:30 a. m., Beginning of the Academic Year.

Nov. 29 Thursday, Thanksgiving Day.

Christmas Recess, from December 19, Wednesday, 4:30 p. m. to January 3, Thursday, 8 a. m.

1924

Jan. 21-30 Semester Examinations.

Second Semester

Feb. 4 Monday, 8 a. m., Beginning of Second Semester.

Feb. 22 Friday, Washington's Birthday.

Easter Recess, from April 17, Thursday, 4:30 p. m., to April 29, Tuesday, 8 a. m.

May 3 Saturday, before 12 o'clock noon, Clark, Head, Pruyn, and Kirkland Orations, Soper Theses, and Prize Essays due.

May 10 Saturday, from 10:30 a. m., Inter-Academic Day.

May 27 Tuesday, Underwood Prize Examination in Chemistry.

May 28 Wednesday, Submission of Elective Choices, all Classes. MeKinney Prize Debate, 8 p. m.

May 30 Friday, Memorial Day.

May 31 Saturday, Tompkins Prize Examination in Mathematics. Brandt Prize Examination in German.

June 2-11 Semester Examinations.

June 11 Wednesday, Final Chapel. Announcement of the Honors and Prizes of the Year.

Commencement Week

June 13 Friday, Class day, 10 a. m.
Meeting of the Board of Trustees, 2 p. m.
McKinney Prize Declamation Contest, 4 p. m.
The Charlatans' Dramatic Exhibition, 8:15 p. m.

June 14 Saturday, Alumni Day. Meeting of the Society of Alumni, 10:30 a. m. Class Reunions.
The President's Reception, 4 p. m.
Clark Prize Exhibition, 7:30 p. m.

June 15 Sunday, Baccalaureate Sermon, 10:30 a. m.

June 16 Monday, 112th Commencement, 10 a. m.

Summer Vacation of Thirteen Weeks

First Semester, 1924–1925

1924

Sept. 15-17 Monday to Wednesday, Entrance Examinations.

Sept. 16-17 Tuesday and Wednesday, Registration of all Classes.

Sept. 17 Wednesday, New Students meet the Dean in the Chapel, 5 p. m.

Sept. 18 Thursday, 8:30 a. m., Beginning of the Academic Year.

Sept. 20 Saturday, Entrance Examinations in Science.

Nov. 27 *Thursday, Thanksgiving Day.*

Christmas Recess, from December 23, Tuesday, 4:30 p. m., to January 7, Wednesday, 8 a. m.

1925

Jan. 19-28 Semester Examinations.

THE TRUSTEES

	ELECTED	TERM
HON. ELIHU ROOT, R.P.D., D.C.L., LL.D., New York, *Chairman*	1883	
EX-PRES. M. WOOLSEY STRYKER, D.D., L.H.D., LL.D., Rome	1892	
ALEXANDER C. SOPER, LL.D., Lakewood, N. J.	1897	
HENRY H. BENEDICT, LL.D., New York	1897	
CHARLES B. ROGERS, A.M., Clinton	1899	
BENJAMIN W. ARNOLD, A.M., Albany	1901	
SAMUEL F. ENGS, A.B., New York	1904	1924
HON. FREDERICK W. GRIFFITH, A.M., Palmyra	1907	1928
HON. ABEL E. BLACKMAR, LL.D., Brooklyn	1908	1929
REV. ROBERT G. MCGREGOR, D.D., New Rochelle	1910	1924
REUBEN LESLIE MAYNARD, A.M., New York	1910	1924
JOSEPH RUDD, PH.B., Clinton	1910	1924
WILLIAM M. BRISTOL, A.B., Brooklyn	1912	1926
DANIEL BURKE, A.M., New York	1913	1927
PRES. FREDERICK C. FERRY, PH.D., SC.D., LL.D., Clinton	1917	
ROBERT W. POMEROY, A.M., Buffalo	1917	1924
ROBERT A. PATTESON,* A.B., Tarrytown	1920	1924
ROBERT D. FRASER, A.B., Utica	1921	1928
REV. ARTHUR S. HOYT, D.D., Auburn	1921	1928
GEORGE F. WALLACE,* B.S., Herkimer	1921	1925
JAMES H. GLASS, M.D., Utica	1921	1928
HARRY G. KIMBALL, A.M., New York	1922	1929
REV. DARWIN F. PICKARD, D.D., Watertown	1922	1929
HON. NORMAN J. MARSH,* A.M., New York	1922	1926
CHARLES A. MILLER, A.B., Barneveld	1923	1930
JOHN L. STRICKLAND, A.B., Carthage	1923	1930
FRANK B. GILBERT,* LL.D., Albany	1923	1927

* Elected by the Alumni of the College.

Committees of the Trustees

Executive Committee: MESSRS. FERRY, ROGERS, GRIFFITH, RUDD, FRASER.

Ways and Means: MESSRS. BURKE, SOPER, BENEDICT, MAYNARD, BRISTOL, POMEROY, PATTESON.

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Degrees: MESSRS. FERRY, STRYKER, MCGREGOR, HOYT, GLASS.

Buildings and Grounds: MESSRS. ROOT, STRYKER, MAYNARD, BURKE, FERRY.

Undergraduate Activities: MESSRS. RUDD, ENGS, BRISTOL, KIMBALL, MARSH.

College Growth: MESSRS. FRASER, FERRY, POMEROY, WALLACE, PICKARD.

Treasurer

CHARLES B. ROGERS, A.M., First National Bank, Utica.

THE FACULTY*

FREDERICK CARLOS FERRY.....*President of the College and Professor of Mathematics.*
A.B., Williams, 1891; A.M., Williams, 1894, and Harvard, 1895; Ph.D., Clark, 1898; Sc.D., Colgate, 1909; LL.D., Hamilton, and Williams, 1917, George Washington, 1921.

ALBRO DAVID MORRILL.....*Stone Professor of Biology.*
B.S., Dartmouth, 1876; M.S., 1879.

WILLIAM HARDER SQUIRES.....*John Stewart Kennedy Professor of Philosophy.*
A.B., Hamilton, 1888; A.M., 1891; Ph.D., Leipzig, 1901.

SAMUEL J. SAUNDERS.....*Professor of Physics and Instructor in Astronomy upon the Litchfield Foundation; Registrar.*
A.B., Toronto, 1888; A.M., 1893; D.Sc., Cornell, 1894.

WILLIAM PIERCE SHEPARD.....*Burgess Professor of the Romance Languages and Literatures.*
A.B., Hamilton, 1892; A.M., 1893; Ph.D., Heidelberg, 1896.

ARTHUR PERCY SAUNDERS.....*Childs Professor of Agricultural and of General Chemistry; Dean.*
A.B., Toronto, 1890; Ph.D., Johns Hopkins, 1894.

EDWARD FITCH.....*Edward North Professor of Greek.*
A.B., Hamilton, 1886; Ph.D., Göttingen, 1896.

JOSEPH DARLING IBBOTSON..*Librarian; Instructor in Hebrew.*
A.B., Hamilton, 1890; A.M., 1894.

FRANK HOYT WOOD....*James S. Sherman Memorial Professor of Political Science.*
A.B., Syracuse, 1891; A.M., 1894; A.B., Harvard, 1892; Ph.D., Leipzig, 1900.

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* Arranged in the order of appointment to rank.

FREDERICK MORGAN DAVENPORT....*Maynard-Knox Professor of Law and Civil Polity.*
A.B., Wesleyan, 1889; Ph.D., Columbia, 1905; LL.D., Wesleyan, 1917.

CALVIN LESLIE LEWIS.....*Upson Professor of Rhetoric and Oratory.*
A.B., Hamilton, 1890; A.M., New York University, 1901.

CLEVELAND KING CHASE....*Benjamin-Bates Professor of Latin.*
A.B., Oberlin, 1891; A.M., 1896; Litt.D., Colgate, 1919.

FRANK HUMPHREY RISTINE.....*Professor of the English Language and Literature.*
A.B., Wabash, 1905; A.M., Columbia, 1907; Ph.D., 1910.

MILLEDGE LOUIS BONHAM, JR.....*P. V. Rogers Professor of History.*
B.Litt., Furman, 1900; A.M., Columbia, 1910; Ph.D., 1911.

ALBERT IRA PRETTYMAN.....*Director of Physical Education.*
International Y. M. C. A. College, Springfield, 1906.

HORACE SEELY BROWN.....*Professor of Mathematics; Clerk of the Faculty.*
B.S., Lafayette, 1899; M.S., 1905.

WILLIAM MASSEY CARRUTH....*Pratt Professor of Mathematics.*
A.B., Cornell, 1901.

NELSON CLARKE DALE.....*Professor of Geology.*
B.S., Middlebury, 1903; A.M., Brown, 1909;
Ph.D., Princeton, 1914.

EDWARD FRANKLIN HAUCH.....*Munson Professor of the German Language and Literature.*
A.B., Toronto, 1907; A.M., Columbia, 1909; Ph.D., 1916.

ROBERT BARNES RUDD.....*Professor of the English Language and Literature.*
A.B., Hamilton, 1909; B.A., Oxford, 1912; A.M., Hamilton, 1913.

ARCHIBALD MORTIMER ERSKINE.....*Professor of Chemistry.*
B.Chem., Cornell, 1914; Ph.D., 1920.

DONALD BLYTHE DURHAM.....*Professor of Latin and Greek.*
A.B., Princeton, 1905; A.M., 1906; Ph.D., 1911.

FRANCIS LESTER PATTON.....*Professor of Economics.*
A.B., Ohio State University, 1913; B.A., Oxford, 1916; M.A., 1919.

RALPH CLEWELL SUPER.....*Associate Professor of Spanish, French, and German.*
A.B., Ohio University, 1895; Diploma of Grenoble, France, 1899.

PAUL ADEE FANCHER.....*Associate Professor of English.*
A.B., Amherst, 1910; A.M., Columbia, 1916.

WILLARD BOSTWICK MARSH.....*Associate Professor of English Composition and Public Speaking.*
A.B., Hamilton, 1912; A.M., 1915; A.M., Princeton, 1917.

BART J. CARROLL....*Associate Director of Physical Education.*
B.S., Colgate, 1918.

JEAN MARIUS GÉLAS.....*Associate Director of Physical Education.*
École Normale Militaire d'Escrime et de Gymnastique, Joinville-le-Pont, France, 1898-1902.

GEORGE ELLAS WISEWELL.....*Associate Professor of Romance Languages.*
Ph.B., Hamilton, 1904; A.M., Johns Hopkins, 1911; Ph.D., Wisconsin, 1918.

DONALD FAY MCBRIDE.....*Assistant Physical Director.*
B.S., Colgate, 1920.

WILLARD BROWN.....*Instructor in Biology.*
A.B., Marietta, 1922.

EDWARD WALES ROOT.....*Lecturer on Art.*
A.B., Hamilton, 1905; A.M., 1908.

Committees of the Faculty

Schedule and Studies: Professor Carruth, the President, Professors Squires, Ristine, Durham, Patton.

Discipline: The President, the Dean, Professors Wood, Rudd, Marsh.

Attendance and Scholarship: The President, the Dean, Professors Fitch, Brown, Dale.

Undergraduate Activities: Professor Wood, the Dean, Professors Ristine, Prettyman, Erskine.

Reading: The President, Professors Ibbotson, Lewis, Chase, Bonham, Super.

Library: Professors Ibbotson, Morrill, Shepard, Rudd.

College Entrance: The President, Professors Fitch, Chase, Ristine, Bonham, Hauch.

Record of Scholarship: The Registrar, Professors Brown, Carruth.

Catalogue: Professors Ibbotson, Durham, Patton, Wisewell.

Other College Officers

Edward M. Coughlin.....*Bursar*
Elliot Crim Burton, b.s.....*Superintendent of Buildings and Grounds*
Mollie Harriet Roberts, a.b.....*Secretary to the President*
Wallace Bradley Johnson, ph.b.....*Field Secretary*
Rachel Swan Roberts, a.b.....*First Library Assistant*
Bessie Irene Partridge, b.s.....*Library Assistant*
Lucy Irene Munger.....*Library Assistant*
Helen Agnes Gaffney.....*Stenographer*
Esther Elizabeth Jones.....*Stenographer*
Mattie M. Southworth.....*Manager of Commons*

EARLY HISTORY

Hamilton College is the outgrowth of the labors of Samuel Kirkland, missionary to the Oneida Indians through the latter half of the eighteenth century. At the beginning of the Revolutionary War, Kirkland's influence drew many Iroquois to the Colonial cause, and materially contributed to the successful issue of the Battle of Oriskany and the relief of Fort Stanwix. This service and others during the Revolution, followed by frequent interposition in behalf of friendly relations between the Indians and the white settlers, won for Kirkland the confidence and regard of Washington and Hamilton. When Kirkland determined to establish a school for the Indians and the sons of pioneers, Hamilton gave his support to the project, and became the first trustee of the Hamilton Oneida Academy. The Academy was chartered by the Regents of the University of the State of New York, January 29, 1793. The State and the Indians had granted to Kirkland in 1788 a tract of wild land in what is now the Town of Kirkland, a portion of which was set aside for the new institution. Here, in a small clearing, at a spot just south of the present Chapel, the corner-stone of the first building was laid by Baron Steuben, July 1, 1794. The school expanded, until in 1810 its students numbered 170. Two years later, May 26, 1812, the college charter was granted.

Purpose

In a period of rapid changes in educational theory, Hamilton College chooses to preserve the earlier college ideals. It believes that the discipline of language-training is an essential part of the preparation for subsequent specialization in any field of study, as well as the basis for a critical appreciation of literature; that the mastery of subjects of approved disciplinary and cultural value is a means of giving students a

broad and liberal training for life; and that, in the diversity of modern educational needs, there is a definite place for the small college that emphasizes the humanities.

While the College thus vigorously maintains the cultural ideal, it aims to neglect no subject that is essential to a well-rounded education. The modern languages are not sacrificed to the ancient, nor the natural sciences to philosophical or historical studies. Laboratory training in the methods of science forms an integral part of the scheme of studies prescribed as the basis of a liberal education. At the same time, students may receive thorough preparation for the scientific and the medical schools. Instruction in the principles of constitutional government, begun under Theodore W. Dwight, eighty years ago, and extended to follow the advance of constitutional government throughout the world, is designed to equip men for intelligent citizenship. The College has long enjoyed a reputation for the efficient training in public speaking which it imparts to all its students, and work in this department is required of every undergraduate throughout his course.

By the application of a group system of electives, the College aims to secure breadth without superficiality, and thoroughness without cramping rigidity. It demands intensive work on the part of its students, and it strives to offer them breadth of educational and spiritual outlook.

ADMISSION

Methods of Admission to the Freshman Class

1. By the Examinations of the College Entrance Examination Board. Applications for examinations conducted by this Board must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board at least three weeks in advance of the examination. The fee is nine dollars for all candidates. These examinations will be offered at the College, June 16-21, 1924, in accordance with the schedule published by the College Entrance Examination Board.

2. By Examination at the College. Entrance examinations will be held in the several department rooms, September 15-20, 1924, as follows:

Monday, Sept. 15	Latin, 2 to 5 p. m.
Tuesday, Sept. 16	Mathematics, 8:30 to 11:30 a. m.
	English, 2 to 5 p. m.
Wednesday, Sept. 17	Greek, 8:30 to 11:30 a. m.
	Modern languages, 8:30 to 11:30 a. m.
	History, 2 to 4 p. m.
Saturday, Sept. 20	Biology, Chemistry, Physics, 2 to 5 p. m.
	Advanced mathematics, 2 to 5 p. m.

Any of these examinations may be taken one year before admission to college.

3. By the Examinations of the New York State Education Department. Full credit will be given to all examinations in admission subjects conducted by this Department. Diplomas and pass-cards issued by it will be accepted so far as they cover the requirements.

The College Entrance Diploma in Arts, issued by the Regents of the University of the State of New York, admits

in full to the College; the College Entrance Diploma in Science admits in full, if at least two units of Latin are included among the subjects upon which the Diploma is based, and drawing, shopwork, bookkeeping, and shorthand are not included.

4. By Certificate from the Principal of the School in which the Candidate has been prepared. Such schools must have been approved by the Faculty of the College. Blank certificates will be sent by the President upon request, and should be filed with him as early as possible.

Requirements for Admission

Fourteen and one-half units of secondary school subjects are required. A unit in any subject represents a year's study, constituting approximately a quarter of a full year's work. Under ordinary circumstances, a satisfactory year's work in any subject cannot be accomplished in less than 120 sixty-minute periods or their equivalent.

Required

English	3 units	Foreign Language, of which at least two units must be in Latin or Greek	5 to 7 units
Algebra	1½ units		
Plane Geometry	1 unit		
History	1 unit	Elective	3 to 1 units
		Total	14½ units

Elective (if not included above)

Elementary German	2 units	Ancient, European, English, American, and Modern History, each	1 unit
Advanced German	1 unit		
Elementary French	2 units		
Advanced French	1 unit	Biology	1 unit
Elementary Spanish	2 units	Chemistry	1 unit
Advanced Spanish	1 unit	Physics	1 unit
Fourth year of Latin	1 unit	Physical Geography	1 unit
Third year of Greek	1 unit	Adv. Mathematics	½ to 1½ units
Civics	½ unit		

A single elementary year of a language will not be counted as fulfilling any unit of these requirements. The third year of advanced language study may, however, be presented as a required or an elective unit.

Part, at least, of the preparatory work in algebra should be done in the final year in the secondary school.

The following combinations of foreign languages and elective subjects may be made, eight units in each case. These, added to the six and one-half units of English, mathematics, and history, satisfy the total requirement of fourteen and one-half units.

ADMISSION GROUPS

I		II		III		IV	
Latin	4	Latin	4	Latin	4	Latin	4
Greek	3	Greek	2	Mod. L.	3	Mod. L.	2
Elect.	1	Elect.	2	Elect.	1	Elect.	2
	8		8		8		8

V		VI		VII		VIII	
Latin	3	Latin	3	Latin	3	Latin	2
Mod. L.	3	Mod. L.	2	Mod. L.	2	Mod. L.	3
Elect.	2	Mod. L.	2	Elect.	3	Elect.	3
		Elect.	1				
	8		8		8		8

A like number of units of admission Greek are accepted as a substitute for Latin in Admission Groups V-VIII.

A student slightly deficient in any subject required for admission may be admitted with a condition in that subject. For the removal of the condition the department concerned will fix a program of study, and will set an examination not later than the opening of the second semester.

A satisfactory testimonial of conduct and character is required of all candidates for admission.

Definition of Requirements

English

(1) English Grammar and Composition

English grammar should ordinarily be reviewed in the high school, and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition, punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument, based on simple outlines. Finally, special instruction in language and composition should be accompanied by a concerted effort of teachers to cultivate in the student the habit of using good English in all his recitations and various exercises, whether oral or written.

(2) English Literature

The requirement includes, first, a thorough familiarity with at least ten selections made from five groups of books prescribed *for reading*, and second, a more minute knowledge of certain specified examples of the drama, lyric, essay, and oration prescribed *for study*. The books necessary to meet both parts of the requirement are those recommended by the National Conference on Uniform Entrance Requirements in English. For 1923-1927 they are as follows:

(A) For Reading

The books provided for reading are arranged in five groups, from each of which at least two selections are to be made, except that for any book in group 5 a book from any other group may be substituted. Selections are set off by semicolons.

Group 1. Dickens' *A Tale of Two Cities;* George Eliot's *Silas Marner;* Scott's *Ivanhoe* or *Quentin Durward;* Stevenson's *Treasure Island* or *Kidnapped;* Hawthorne's *The House of the Seven Gables;* Cooper's *The Last of the Mohicans.*

Group 2. Shakespeare's *Merchant of Venice; Julius Cæsar; King Henry V; As You Like It; The Tempest.*

Group 3. Scott's *The Lady of the Lake;* Coleridge's *The Ancient Mariner,* and Arnold's *Sohrab and Rustum;* a collection of representative verse, narrative and lyric; Tennyson's *Idylls of the King* (any

four); the *Æneid* or the *Odyssey* in a translation of recognized excellence, with the omission, if desired, of Books I-V, XV, and XVI of the *Odyssey;* Longfellow's *Tales of a Wayside Inn.*

GROUP 4. The *Old Testament* (the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther); Irving's *Sketch Book* (about 175 pages); Addison and Steele's *Sir Roger de Coverley Papers;* Macaulay's *Lord Clive,* or *History of England,* chapter 3; Parkman's *Oregon Trail;* Franklin's *Autobiography;* Emerson's *Self Reliance* and *Manners.*

GROUP 5. A modern novel; a collection of short stories (about 150 pages); a collection of contemporary verse (about 150 pages); a collection of prose writings on matters of current interest (about 150 pages); two modern plays. All selections from this group should be works of recognized excellence.

(B) FOR STUDY

The books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP 1. Shakespeare's *Macbeth; Hamlet.*

GROUP 2. Milton's *L'Allegro, Il Penseroso,* and either *Comus* or *Lycidas;* Browning's *Cavalier Tunes, The Lost Leader, Good News from Ghent, Home Thoughts, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa, The Italian in England, The Patriot, The Pied Piper, "De Gustibus"—, Instans Tyrannus, One Word More.*

GROUP 3. Macaulay's *Life of Johnson;* Carlyle's *Essay on Burns,* with a brief selection from Burns' poems; Arnold's *Wordsworth,* with a brief selection from Wordsworth's poems.

GROUP 4. Burke's *Speech on Conciliation with America;* a collection of orations, to include at least Washington's *Farewell Address,* Webster's *First Bunker Hill Oration,* and Lincoln's *Gettysburg Address;* Macaulay's *Life of Johnson;* Arnold's *Wordsworth,* with a selection from Wordsworth's poems; Lowell's *On a Certain Condescension in Foreigners,* and *Shakespeare Once More.*

MATHEMATICS

Elementary Mathematics

(A1) ELEMENTARY ALGEBRA. The four fundamental operations for rational algebraic expressions; factoring; determination of the highest common factor and lowest common multiple by factoring; fractions, including complex fractions and ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities;

problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers; exponents, including the fractional and negative. One unit.

(A2) INTERMEDIATE ALGEBRA. Quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending on quadratic equations; the binomial theorem for positive integral exponents; the formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions with applications. One-half unit.

Algebra should be reviewed during the last preparatory year.

PLANE GEOMETRY. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle; the solution of numerous original exercises, including loci problems; applications to the mensuration of lines and plane surfaces.

Advanced Mathematics

ADVANCED ALGEBRA. Permutations and combinations, limited to simple cases; complex numbers, with graphical representation of sums and differences; determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations; numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs, and Horner's method, but not Sturm's functions or multiple roots.

SOLID GEOMETRY. The usual theorems and constructions of good textbooks, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and spherical triangle; the solution of numerous original exercises, including loci problems; applications to the mensuration of surfaces and solids.

PLANE TRIGONOMETRY. Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas; solution of trigonometric equations of a simple character; theory and use of logarithms (without the introduction of work involving infinite series); the solution of right and oblique triangles and practical applications.

HISTORY

Ancient History, European History, English History, Modern History, and United States History may each be offered as one unit for entrance. An accurate text-book of about 500 pages should be covered, and supplemented by suitable parallel readings of about 1,000 pages. Attention should be paid to historical geography. The examination will call for comparison of historical characters, periods, and events, and for the exercise of judgment as well as of memory.

LATIN

The requirement for admission by examination is that of the College Entrance Examination Board, as stated below. The statement also indicates the preparation recommended for a candidate who presents a principal's certificate for admission. The requirement in a modified form is incorporated in the Syllabus of the New York State Education Department, whose credentials are accepted. For a candidate who offers but three units of Latin, requirement I, 2, b, or I, 2, c, below, is omitted; for one who offers only the two units required of candidates for the degree of Bachelor of Science, I, 2, b, and I, 2, c, below, are both omitted.

I. Amount and Range of Reading Required

(1) The reading, without regard to the prescription of particular authors and works, shall not be less in amount than Caesar, *Gallic War*, I-IV; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, *Aeneid*, I-VI.

(2) The amount of reading specified above shall be selected by the schools from the following authors and works: (*a*) Caesar, *Gallic War* and *Civil War*, and Nepos, *Lives;* (*b*) Cicero, orations, letters, and *De Senectute*, and Sallust, *Catiline* and *Jugurthine War;* (*c*) Vergil, *Bucolics*, *Georgics*, and *Aeneid*, and Ovid, *Metamorphoses*, *Fasti*, and *Tristia*.

II. Scope of the Examination

(1) TRANSLATION AT SIGHT. Candidates will be examined in translation at sight of both prose and verse. The vocabulary, constructions, and range of ideas of the passages set will be suited to the preparation secured by the reading indicated above.

(2) PRESCRIBED READING. Candidates will be examined also upon the following prescribed reading: In 1924 and 1925: Cicero, the fourth oration against Catiline and the oration for the Manilian Law; Vergil,

Aeneid, I and IV; Ovid, *Metamorphoses,* Book III, 1-137 (Cadmus); IV, 55-166 (Pyramus and Thisbe), and 663-764 (Perseus and Andromeda); VI, 165-312 (Niobe); VIII, 183-235 (Daedalus and Icarus); X, 1-77 (Orpheus and Eurydice); XI, 85-145 (Midas). In 1926, 1927, and 1928: Cicero, the first oration against Catiline, the oration for Archias, and the impeachment of Verres, Actio Secunda, IV, ch. 52-60 (The Plunder of Syracuse); Vergil, *Aeneid,* III and VI; Ovid, *Metamorphoses,* Book I, 313-415 (Deucalion and Pyrrha); II, 1-328, (Phaethon); VII, 1-158 (The Golden Fleece); VIII, 616-724 (Philemon and Baucis); X, 560-680 (Atalanta's Race). Accompanying the different passages will be questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

(3) GRAMMAR AND COMPOSITION. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose.

GREEK

The requirement is substantially as defined by the New York State Education Department in its Syllabus outlining the work of the first, second, and third years; and by the College Entrance Examination Board.

(1) Greek Grammar; Xenophon's *Anabasis,* Books 1-4; the translation at sight of easy Greek prose; the translation into Greek of simple sentences based upon Books 1-2 of the *Anabasis,* in order to test the candidate's knowledge of forms and important principles of syntax. (Two units.)

(2) Homer's *Iliad,* Books 1-3 (omitting the catalogue of the ships), or an equivalent amount of the text of Homer. This includes Homeric forms, constructions, and prosody. (One unit.)

The requirements as above stated apply to candidates who are admitter either by certificate or by examination; and to competitors for the Maynard and Brockway Entrance Prizes and the Fayerweather Scholarships in so far as such competitors offer Greek as an entrance subject.

An alternative provision is made for candidates for the John W. Vrooman Freshman Prize Scholarship in Greek. These are examined

orally upon the Greek text of the *Gospel of Luke* and upon Homer's *Iliad*, Books 1-3. Candidates who make a satisfactory record in this prize competition will be held to have met requirement 2 above, and so much of requirement 1 as is covered by Books 2-4 of the *Anabasis*. The remaining parts of the total requirement may be satisfied either by examination or upon certificate. A competitor for the Vrooman prize may also enter the Maynard and Brockway prize competition.

Modern Languages

The requirements follow the recommendations of the Committee of Twelve of the Modern Language Association of America, upon which the more detailed statements of the College Entrance Examination Board and of the New York State Education Department are based.

In French and German the requirements are divided into (A) elementary (two units), and (B) advanced (one unit). *A single first year* is not accepted as one unit, either in combination with two years of another language or as a substitute for a third year of Greek or a fourth year of Latin. In general a modern language should be treated as a living language which is not merely to be read, but also to be written, spoken, and understood when heard. Hence the accurate acquisition of the foreign sounds and of a standard pronunciation is all important from the beginning, and the "direct" method of teaching the most effective. In the preparatory work great stress should be laid on oral and auricular training; the pupil should receive a constant drill in pronunciation, dictation, and the free reproduction (both in English and in French and German) of phrases read aloud by the teacher. Teachers in preparatory schools should follow the method of oral and aural drill recommended by the Association of Modern Language Teachers of the Middle States and Maryland. The examination will include a suitable test in pronunciation and ability to understand the spoken language. Schools certifying a candidate for admission must state whether he has received this training.

French

(A) Elementary French. The work of the first year should comprise: (1) careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of adjectives, participles, and pronouns, the use of personal pronouns, adverbs, prepositions, and conjunctions, the order of words in a sentence, and the elementary rules of syntax, with constant drill upon exercises illustrating these principles; (3) the reading of at least 100 pages of graduated texts, with constant practice in translating into French easy variations of the sentences read, and in

reproducing from memory sentences previously read; (4) simple conversations and writing of French from dictation. The work of the second year should comprise: (1) the reading of at least 250 pages of easy modern prose in the form of stories, plays, or historical and biographical sketches; (2) constant practice, as in the first year, in translating into French variations on the texts read; (3) frequent abstracts, sometimes oral and sometimes written, of portions of the texts already read; (4) writing French from dictation; (5) continued drill in the rudiments of grammar and in the writing of sentences illustrative of the grammatical principles; (6) conversation, and the answering in French by the student of questions based on the text read. Suitable texts for the second year are About's *Le Roi des Montagnes*, Daudet's easier short tales, Erckmann-Chatrian's stories, Malot's *Sans Famille*, Sarcey's *Le Siège de Paris*, Labiche's *La Poudre aux Yeux*, *Le Voyage de M. Perrichon*, *La Cagnotte*, extracts from Michelet, Verne's stories.

(B) ADVANCED FRENCH. A systematic course of five periods a week, extending over a third school year, in addition to the elementary course, should comprise: (1) at least 400 pages of French of ordinary difficulty, a portion to be in dramatic form; (2) constant practice in giving French paraphrases, abstracts, or reproductions from memory of selected portions of the matter read: (3) the study of a grammar of moderate completeness; (4) writing from dictation; (5) continuation of the drill in oral and auricular training. At the end of this course the pupil should be able to read at sight ordinary French prose or simple poetry, to translate into French a connected passage of English based on the text read, and to answer questions involving a thorough knowledge of syntax and morphology. Suitable texts are: About's stories, Augier's plays, Béranger's poems, Corneille's *Le Cid* and *Horace*, Labiche's plays, Loti's *Pêcheur d'Islande* and *Ramuntcho*, Molière's *L'Avare*, *Le Bourgeois Gentilhomme* and *Le Médicin malgré Lui*, Racine's *Athalie*, *Andromaque* and *Esther*, George Sand's *La Mare au Diable* and *François le Champi*, Scribe's plays, Thier's *L'Expédition de Bonaparte en Egypte*, Voltaire's historical writings.

GERMAN

(A) ELEMENTARY GERMAN. The work of the first year should comprise: (1) Careful drill upon pronunciation; (2) drill upon the rudiments of grammar with simple conversational exercises and easy reading material as a basis; the inflexion of the articles, common nouns and adjectives, pronouns, weak verbs and the more usual strong verbs; the use of the more common prepositions, the simpler uses of the modal auxiliaries, and the elementary rules of syntax and word-order; (3)

the reading of from 75 to 100 pages of graduated texts from a reader; (4) abundant easy oral and written exercises designed to fix the forms and principles of grammar and to cultivate readiness in the use of the natural forms of expression. Suitable books for the first year: a lesson-book of the type of Gohdes and Dodge's *Leitfaden der deutschen Sprache;* a reader like Guerber's *Märchen und Erzählungen,* Foster's *Geschichten und Märchen,* or Kern's *German Stories Retold.* The work of the second year should comprise: (1) the reading of about 200 pages of easy narrative or drama with abundant oral and written reproduction of the content; (2) constant drill on pronunciation; (3) continued drill upon the rudiments of grammar; besides the topics already mentioned, a more thorough treatment of relative and interrogative pronouns, reflexive verbs, compound verbs, the use of *haben* and *sein* as auxiliaries, the modal auxiliaries, the subjunctive, the conditional, the passive. The use of a set of graded sentences for translation, Truscott and Smith's *Elementary German Composition,* or a similar book, is recommended at this stage. Suitable reading texts are: Stern's *Aus deutschen Dörfern,* Storm's *Immensee,* Benedix's *Lustspiele,* von Hillern's *Höher als die Kirche,* Eichendorff's *Aus dem Leben eines Taugenichts,* Wildenbruch's *Das edle Blut.*

(B) ADVANCED GERMAN. In addition to the work of the elementary course, the work should comprise: (1) the reading of from 400 to 500 pages of standard prose and poetry; (2) the continuation of oral and written reproduction of text read, drill on pronunciation, grammar, and composition. In composition the emphasis should be upon speed and accuracy rather than upon the translation of difficult and unusual forms of expression. Suitable composition books are: Chiles' *German Composition,* Whitney and Stroebe's *Easy German Composition,* and similar books. Reading texts at this stage should be chosen for their literary and cultural value; the best books are not usually the most difficult. Suitable texts are: Storm's *Schimmelreiter* and *Pole Poppenspäler,* Sudermann's *Frau Sorge,* Frenssen's *Jörn Uhl,* Hauff's *Lichtenstein,* Riehl's *Der Fluch der Schönheit,* Keller's *Romeo und Julia auf dem Dorfe, Das Fähnlein der sieben Aufrechten,* Freytag's *Journalisten,* Heine's *Die Harzreise,* Schiller's *Wilhelm Tell* and *Die Jungfrau von Orleans,* Goethe's *Hermann und Dorothea* and *Götz von Berlichingen,* Lessing's *Minna von Barnhelm.*

SPANISH

(A) ELEMENTARY SPANISH. The two years' work should comprise the following: careful drill in pronunciation; a complete study of some

good grammar; mastery of all but the rare irregular verbs; the inflection of nouns, adjectives, and pronouns; the essential elements of syntax; the reading of at least 300 pages of modern Spanish prose or verse; exercises containing illustrations of the principles of grammar, and practice in translating into Spanish variations of texts read; writing Spanish from dictation. Suitable texts are: Valera, *El pájaro verde;* Pérez Escrich, *Fortuna;* Alarcón, *El Capitán Veneno;* Jorge Isaacs, *María;* Frontaura, *Las tiendas;* Quintana, *Vasco Núñez de Balboa;* a reader.

(B) ADVANCED SPANISH. The work of a third year should comprise the reading of 300 to 400 pages of Spanish of ordinary difficulty; constant practice in giving Spanish paraphrases, abstracts, or reproductions from memory of portions of the matter read; the discussion in Spanish of the main facts of Spanish and Spanish-American geography, history, and customs; the study of grammar; the use of a composition book; writing from dictation.

Suitable texts are: Taboada, *Cuentos alegres;* Isla's version of *Gil Blas;* Selgas, *La mariposa blanca;* Pérez Galdós, *Doña Perfecta;* Palacio Valdés, *La Hermana San Sulpicio;* plays of the Alvarez Quintero brothers, and of Benavente; a collection of essays dealing with Spanish or Spanish-American life and customs.

BIOLOGY

The requirement of one unit may be satisfied by presenting any one of the following subjects:

(a) GENERAL BIOLOGY. The activities of living things should be the central idea. The laboratory and classroom work should include a study of the functions of representative plants and animals and their relation to each other and to their environment. These studies should be bound together by a knowledge of the common laws of living organisms.

(b) BOTANY. A study of examples of the great groups of plants should include the general laws of plant physiology, the fundamental facts of plant structure, and the relation of plants to animals and to man.

(c) ZOOLOGY. Representative common animals should be studied in field and laboratory that a knowledge of their habits and structure and of their structural and economic relation to man may be obtained. The relationship of plants to animals should also be considered.

As an essential part of any of these methods of meeting the requirement, a certified note-book with drawings and description of work done

should be presented with the certificate, or at the time of examination. A more detailed account of the requirement may be found in the Syllabus of the New York State Education Department or in the publications of the College Entrance Examination Board.

Chemistry

The requirement is substantially that specified in the Syllabus of the New York State Education Department. Not less than one-half of the course should be individual laboratory work devoted to the preparation and study of the common elements and compounds and to experiments illustrating important laws. The course should also include lecture-table demonstrations and the study of some good elementary text-book, with recitations covering the fundamental laws and theories of chemical combination, and the preparation, properties, and uses of the more important metallic and non-metallic elements, and their compounds.

Physics

A detailed statement of the requirement may be found in the Syllabus of the New York State Education Department or in the publications of the College Entrance Examination Board. Preparation should include a knowledge of the general laws and principles of physics as presented in a text-book, together with at least thirty experiments selected from a list similar to that given in the Syllabus. The student taking the examination here should present his note-book, with certification by the instructor under whose supervision the work was done that the experiments were satisfactory to him and were performed by the student himself.

A student who does not offer a note-book may meet the requirement by showing ability to solve more difficult problems in theoretical physics.

Admission to Advanced Standing

A student who comes from an approved institution of collegiate rank and presents an official statement of honorable dismissal and of his previous work may receive credit for such work without examination. This statement must include a full list of his accepted preparatory subjects, and a list of his college courses with his record therein. Such admission by transfer is ordinarily granted only when the applicant has maintained a standing in the upper half of his class.

Any other student may be admitted to advanced standing by passing the necessary examinations of the departments concerned up to the point at which he desires to enter.

To compete for honors or prizes based in any way upon collegiate work done previous to entrance here, a student must pass examinations covering such work.

Registration

All undergraduates are required to register on the Tuesday or Wednesday before the opening of the first semester. For this purpose the Committee on Schedule and Studies will be in session at hours to be bulletined. At this time all freshmen will make their election of courses for the year, according to the regulations on pages 28 and 29.

All new students meet the Dean in the Chapel at 5 o'clock on the last day of registration.

Entrance Prizes and Scholarships

Prizes and prize scholarships are awarded upon the basis of the September examinations as follows:

(1) The Maynard Prize of $100.

(2) The Brockway Prize of $25.

(3) The five Fayerweather Prize Scholarships, yielding $100 each for freshman year.

(4) The John W. Vrooman Prize Scholarship, yielding $100 for freshman year.

A detailed statement regarding these competitions will be found on pages 55 and 61.

There is a limited number of non-competitive scholarships which are available for freshmen. The conditions under which these scholarships are awarded will be found on pages 52-53 under the heading "Scholarships."

CURRICULUM AND GRADUATION

The curriculum provides courses leading at graduation to two degrees, Bachelor of Arts (A.B.) and Bachelor of Science (B.S.). At admission the undergraduate may register for either degree as he chooses. The curriculum in either case calls for four years of work, but it is possible for students of high standing to shorten the time of residence by taking extra courses.

The following statements apply to candidates for both degrees except where otherwise indicated:

1. The requirement for graduation demands the completion of 140 (for certain classes, 138) semester hours of required and properly chosen elective courses. (For students who complete the requisite elective courses in less than four years, certain required hours are omitted. See page 30.) A semester hour represents one hour of classroom work (or two hours of laboratory work) per week through half of the college year. Normally an undergraduate takes in each semester in freshman year 16 (for certain classes 17) semester hours, in sophomore year 18, in junior year 18, and in senior year 17. No undergraduate is allowed to take more than 21 or less than 14 hours in any semester; but any deviation from the normal number is subject to the approval of the Committee on Schedule and Studies.

2. To meet the requirements for graduation an undergraduate must so arrange his program as to concentrate in two departments of study. These two subjects constitute his majors. A major consists of at least three year-courses in one of the following departments: Greek, Latin, German, Romance Languages, English Language and Literature, Philosophy, History, Political Science (including Law 1), Eco-

nomics (Law 3 may be included), Mathematics, Biology, Chemistry, Physics, Geology. A major must be begun not later than junior year and continued, if the curriculum permits, to graduation. If the major is begun in freshman year, four instead of three year-courses are required if the department concerned offers a sufficient number of courses. The courses chosen for the major under the general rules stated must be approved in each particular case by the Committee on Schedule and Studies.

3. At least six semester hours in one of the natural sciences and at least twelve semester hours in one of the modern languages must be taken in college.

4. Candidates for the A.B. degree must take one ancient and one modern language in freshman year.

5. Candidates for the B.S. degree must take two modern languages in freshman year and complete two majors in Group C (see Elective Courses, p. 30).

6. An undergraduate who, after completing courses leading toward one of the degrees, desires to become a candidate for the other degree, may do so with the approval of the Committee on Schedule and Studies. Any hitherto unsatisfied requirement for the degree sought must be met before the change becomes effective.

7. All courses are arranged as year-courses and are to be taken accordingly. In the notation used, an odd numeral refers to the first semester portion of the course and an even numeral to the second semester portion.

8. An undergraduate who desires to receive credit for work in a summer school must apply to the Faculty in advance for approval of his plans.

Descriptions of the courses are to be found under the heading "Departments of Instruction."

Courses of Freshman Year

Required of all Freshmen

Mathematics 1-2	3 hours
English Composition 1-2 Public Speaking 1, 3-4	4 hours
A foreign language	3 hours
A second foreign language	3 hours
An elective	3 hours
Hygiene and Physical Training	
Total	16 hours

Foreign Language Courses open to Freshmen

Greek 5-6 (prerequisite, 3 units of entrance Greek).
Greek 3-6 (prerequisite, 2 units of entrance Greek).
Greek 1-2 (beginners' course).
Latin 1-2 (prerequisite, 3 or 4 units of entrance Latin. No Latin course is open to students who present only 2 units of that language for entrance; but such undergraduates may qualify for the degree of Bachelor of Arts by taking in college Greek 1-2 and Greek 3-6 instead of Latin).
German 3-4 (prerequisite, 2 or 3 units of entrance German).
German 1-2 (beginners' course).
French 3-4 (prerequisite, 2 or 3 units of entrance French).
French 1-2 (beginners' course).
Spanish 3-4 (prerequisite, 2 or 3 units of entrance Spanish).

Elective Courses open to Freshmen

A third foreign language
History 1-2
Biology 1-2
Chemistry 1-2

For their foreign language courses in the freshman year, candidates for the degree of Bachelor of Arts take a modern language and either Greek or Latin; candidates for the degree of Bachelor of Science take two modern languages; and in either case a third foreign language may be taken as an elective if the candidate desires.

An undergraduate who takes the beginners' course in Greek, German, or French in freshman year must take the second course in that language in sophomore year.

A student who offers four units of mathematics at admission must take Mathematics 3-4 instead of Mathematics 1-2 in freshman year.

Courses of Sophomore, Junior, and Senior Years

Required Courses

In sophomore and junior years six semester hours and in senior year four semester hours of work in the Department of Rhetoric and Oratory are required of all students. But students who otherwise qualify for graduation in less than four years are excused from that part of this work which extends beyond their period of residence.

Elective Courses

Except for the required work as above described, all courses of sophomore, junior, and senior years are elective. The choice of courses is made under a group system, the departments of study being arranged in three groups, as follows:

Group A. Foreign Languages, including Anglo-Saxon and Middle English.

Group B. Rhetoric and Oratory, English Literature, Philosophy, History, Political Science, Law and Civil Polity, Economics, Sociology, Art.

Group C. Mathematics, Natural Sciences.

Regulations Governing Electives

1. All courses are continuous through the year and must be elected accordingly.

2. Three exercises a week are assigned to all courses.

3. Courses for the next year are chosen at the end of freshman, sophomore and junior years respectively.

4. A foreign language begun in freshman year must be continued through sophomore year.

5. In sophomore and in junior year a student must take at least one course from each group, and in senior year at least one course from each of two groups.

6. The elective courses must be so chosen as to comply with the requirements in paragraphs 1 to 5 on pages 27 and 28.

7. After freshman year an undergraduate may take any elective course offered to his own or to a lower class if he has satisfied its prerequisites.

8. The choice of studies for the year must be made not later than the fourth Wednesday in May. This choice may not be changed except by permission of the Committee on Schedule and Studies. Changes are not permitted after the first week of the first semester. All elective cards must conform to the regulations as given above, and all courses must be numbered and indicated as in the Summary of Elective courses.

Summary of Elective Courses by Groups

Sophomore Year

Group A

Greek 7-8: Plato, Theocritus.
Greek 3-6: Homer.
Latin 3-4: Tacitus and Pliny, Catullus and Cicero.
German 3-4: Intermediate German.
German 5-6: German Drama.
French 3-4 Intermediate French, Modern Comedy.
French 5-6: Tragedy, Comedy.

Group B

Art 5-6: Choral Music.
English Literature 1-2: General Introduction.
Philosophy 1-2: Psychology, Logic.
History 1-2: Medieval and Modern Europe.
History 3-4: England and the British Empire.
Political Science 1-2: American Government.

GROUP C

MATHEMATICS 3-4: Analytic Geometry, Calculus.
BIOLOGY 1-2: General Biology.
CHEMISTRY 1-2: Elementary College Chemistry.
CHEMISTRY 3-4: Analytical Chemistry.
PHYSICS 1-2: General Physics.
GEOLOGY 1-2: General Geology.

JUNIOR YEAR

GROUP A

GREEK 7-8: Plato, Theocritus.
GREEK 11-12: Prose Writers.
LATIN 5-6: Drama, Satire.
GERMAN 5-6: German Drama.
GERMAN 7-8: The Age of Goethe.
FRENCH 5-6: Tragedy, Comedy.
FRENCH 7-8: History of French Civilization.
SPANISH 1-2: Elementary Spanish.
ITALIAN 1-2: Elementary Italian, Dante.
ENGLISH LANGUAGE 1-2: Anglo-Saxon, Middle English.

GROUP B

ART 3-4: Appreciation of Art.
ART 5-6: Choral Music.
ENGLISH COMPOSITION 5-6: Advanced English Composition.
ENGLISH LITERATURE 3-4: Seventeenth and Eighteenth Centuries.
ENGLISH LITERATURE 5-6: Romantic Period, Victorian Era.
PHILOSOPHY 3-4: Plato to Spencer.
HISTORY 3-4: England and the British Empire.
HISTORY 7-8: The United States.
HISTORY 9-10: Canada, Latin-America.
ECONOMICS 1-2: Economic Institutions.
ECONOMICS 3-4: Economic Progress.
POLITICAL SCIENCE 3-4: Comparative Government.

GROUP C

MATHEMATICS 5-6: Calculus, Analytic Geometry.
BIOLOGY 5-6: Anatomy, Embryology.
CHEMISTRY 3-4: Analytical Chemistry.
CHEMISTRY 7-8: Physical Chemistry.
PHYSICS 3-4: Mechanics, Heat, Sound, and Light.
GEOLOGY 3-4: Mineralogy.
GEOLOGY 5-6: Economic and Structural Geology.
GEOLOGY 9-10: Petrography and Petrology.

Senior Year

Group A

Greek 11-12: Prose Writers.
Latin 7-8: History of Latin Literature.
German 7-8: The Age of Goethe.
German 9-10: German Civilization.
French 7-8: History of French Civilization.
French 9-10: Romance Philology, Medieval Literature.
Italian 1-2: Elementary Italian, Dante.
Spanish 3-4: Advanced Grammar and Modern Prose.
Hebrew 1-2: Grammar, Historical Prose.

Group B

Art 1-2: Ancient Art.
Art 3-4: Appreciation of Art.
English Composition 7-8: Advanced English Composition.
English Literature 5-6: Romantic Period, Victorian Era.
English Literature 9-10: English Bible and 17th Century Prose.
English Literature 11-12: Shakespeare and Elizabethan Drama.
Philosophy 5-6: Current Problems, Philosophical Classics.
Philosophy 7-8: Pedagogy.
History 7-8: The United States.
History 9-10: Canada, Latin-America.
Law and Civil Polity 1-Political Science 6: Democracy; International Relations.
Law and Civil Polity 3-Economics 6: Social Evolution, Trust Problems.
Economics 5-6: Economic Problems.

Group C

Mathematics 7-8: Differential Equations, Projective Geometry.
Biology 7-8: Bacteriology, Physiology.
Chemistry 3-4: Analytical Chemistry
Chemistry 7-8: Physical Chemistry.
Physics 3-4: Mechanics, Heat, Sound, and Light.
Physics 7-8: Experimental Physics.
Geology 5-6: Economic and Structural Geology.
Geology 9-10: Petrography and Petrology.

DEPARTMENTS OF INSTRUCTION

All courses are continuous through the year and are assigned three hours a week, except as otherwise stated. An odd number refers to the first semester portion of a course; an even number, to the second semester portion.

Group A

Greek

Professor Fitch and Professor Durham

1-2. Elementary Greek. Allen's *First Year of Greek.* Exercises in writing Greek continue throughout the year. *Open to freshmen who enter without Greek.* Professor Durham.

3-6. Homer. First semester: selections from the *Iliad;* Homeric forms, constructions, and prosody. Second semester: selections from the *Odyssey,* with particular attention to the structure of the poem, to Homeric antiquities, and to the historical aspects of the language. *Prerequisite, 1-2, or two units of entrance Greek* Professor Fitch.

5-6. Lysias. Homer's Odyssey. First semester: select orations of Lysias, with a review of the grammar, work in prose composition, and an introductory study of rhetorical style. Second semester: selections from the *Odyssey,* with particular attention to the structure of the poem, to Homeric antiquities, and to the historical aspects of the language. *Open to freshmen who enter with three units of Greek.* Professor Fitch.

7-8. Plato. Theocritus. First semester: the *Apology, Crito,* and portions of the *Phaedo.* A study of the character of Socrates as portrayed by Plato and of the more general aspects of his significance as a thinker. Second semester: lyric poetry; the *Idylls* of Theocritus, illustrated by parallel passages from the other Alexandrian poets. *Prerequisite, 3-6 or 5-6.* Professor Fitch.

9-10. Greek Drama. Careful interpretation of a tragedy of Aeschylus, Sophocles or Euripides, followed by rapid reading of other tragedies. Aristophanes is studied in similar manner. The year's work includes a survey of Greek poetry from Homer to the drama. *Prerequisite, 7-8. Alternates with 11-12.* (Not offered in 1923-24.)

11-12. Prose Writers. Thucydides, Books 4, 5. The sources of Greek history. Demosthenes' *De corona.* Plutarch's *Life of Demosthenes.* The *New Testament* in Greek; selections from *The Acts. Prerequisite, 7-8. Alternates with 9-10.* Professor Fitch.

GREEK PROSE COMPOSITION. Upon application to Professor Durham, an optional course in Greek prose composition, without college credit, is given to students desiring practice in writing Greek. *One hour a week for the year.*

In connection with 5-6, 7-8, 9-10, illustrated lectures on art and archaeology are given, and collateral reading is required. The topics treated are: the Acropolis, its history and monuments; the Cretan and Mycenean periods; the Parthenon; the monuments of Olympia and Delphi.

LATIN

PROFESSOR CHASE AND PROFESSOR DURHAM

1-2. CICERO AND HORACE. The *De Amicitia* and *De Senectute* of Cicero, with a review of Latin grammar and prose composition. A purely literary study of the *Odes* and *Epodes* of Horace. *Open to freshmen who enter with more than two units of Latin.*

PROFESSORS DURHAM AND CHASE.

3-4. TACITUS, PLINY, CATULLUS, AND CICERO. First semester: the *Agricola* of Tacitus and selected letters of Pliny, with a study of the literature and society of the Silver Age. Second semester: the poetry of Catullus and selected letters of Cicero, with a study of the political and social history of the period. *Prerequisite, 1-2.*

PROFESSORS CHASE AND DURHAM.

5-6. ROMAN DRAMA AND SATIRE. First semester: one tragedy of Seneca read rapidly; Plautus and Terence. Emphasis is placed on Roman comedy; several plays are read. Second semester: after a brief introduction to early satire, attention is devoted mainly to the reading of Horace and Juvenal. *Prerequisite, 3-4.*

PROFESSORS CHASE AND DURHAM.

7-8. HISTORY OF LATIN LITERATURE. This course consists primarily of extended readings from Latin authors; with lectures, and the reading of modern authorities. In the second semester, certain problems connected with the language as well as the literature are considered. *Prerequisite, 5-6.* PROFESSOR CHASE.

LATIN PROSE COMPOSITION. Upon application to Professor Durham, an optional course in prose composition, without college credit, is given to students desiring practice in writing Latin. *One hour a week for the year.*

German

Professor Hauch

Courses 1 to 4 are planned to give not only a sound preparation for speaking German, but particularly a fluent reading knowledge, which is useful in junior and senior courses and required in the best graduate and professional schools. To insure this proficiency, a student entering without German should begin it in freshman year, as there is no assurance of a convenient opportunity to elect it later. Courses 5 to 10 aim to give an intimate acquaintance with the language, literature, and civilization of Germany.

1-2. Elementary German. Thorough grounding in pronunciation, grammatical forms, and syntax. From the beginning stress is laid on speaking and writing.

3-4. Intermediate German. Review of the grammar and syntax; rapid reading of modern short stories, novels, plays, and historical prose writings. *Prerequisite, 1-2, or 2 or 3 units of entrance German. Required of sophomores who have taken 1-2 as freshmen.*

5-6. German Drama. Lessing, Goethe, Schiller, drama of the nineteenth century. *Prerequisite, 3-4.*

7-8. The Age of Goethe. Historical survey of the major political, intellectual, and social forces of eighteenth century Germany; lectures, discussions, and essays; required readings from the literature of the period reflecting these forces. The life and works of Goethe. *Faust I* and *II;* critical study and interpretation of the text. *Open to seniors and juniors who have completed 3-4.*

9-10. German Civilization. Survey of the history of the German language, the German people, and German literature in connection with its political, social, and philosophical background; required readings from the sources; lectures, discussions, and essays. *Open to seniors and juniors who have completed 3-4.*

Romance Languages

French

Professor Shepard, Associate Professor Super, and Associate Professor Wisewell

Courses 1 to 4 are given mainly by the oral method, and are intended to provide a preparation for spoken French, as well as a reading knowledge of the language. Students, especially freshmen, should bear

in mind that a knowledge of French is now demanded for work in professional and graduate schools and that there is no certainty of a convenient opportunity to acquire it later. Ordinarily, at least two years of French should be taken in college, nor will any student be allowed to elect course 1-2 only, without permission from the department head. Courses 5-10 are designed to introduce the student to a more exact and thorough knowledge of the French language, literature, and thought.

1-2. ELEMENTARY FRENCH. Grammar, including careful drill in pronunciation, easy reading, composition, conversation, dictation. The oral method is used extensively and as early as possible.

ASSOCIATE PROFESSOR WISEWELL.

3-4. INTERMEDIATE FRENCH. MODERN COMEDY. First semester: reading of modern prose fiction, short stories, etc. Advanced composition. Continued practice in dictation and conversation, based on the texts read. Second semester: rapid reading of selected plays; writing of abstracts, and conversation based on texts read. Special attention to pronunciation and to reading without translating. *Prerequisite, 1-2, or 2 or 3 units of entrance French. Required of sophomores who have taken 1-2 as freshmen.*

ASSOCIATE PROFESSORS SUPER AND WISEWELL.

5-6. FRENCH DRAMA. First semester: tragedy, from Corneille to Rostand. Reading in class of selected plays of Corneille, Racine, Hugo, and Rostand. Many others are assigned for outside reading. *Résumés* and *critiques* in French of assigned outside reading; lectures in French on the history of tragedy. Second semester: comedy, from Molière to Dumas *fils*. Reading in class of selected plays of Molière, Beaumarchais, Marivaux, Musset, Augier, and Dumas *fils*. *Résumés* and *critiques* in French of assigned outside reading; lectures in French on the history of comedy. *Prerequisite, 3-4.* PROFESSOR SHEPARD.

7-8. [illegible] FRENCH CIVILIZATION. A year's study of the origins and development of the French nation, its political, social, religious, literary, [illegible] history. Extensive assigned readings, including both the [illegible] and modern historians, especially Lavisse, Rambaud, Viollet, La[illegible], and others. Preparation of papers in French on selected subjects, in alternation with lectures by the instructor. The illustrative material includes maps, plans, photographs, facsimiles, etc. This course is conducted almost wholly in French. *Prerequisite, 5-6.*

PROFESSOR SHEPARD.

9-10. ROMANCE PHILOLOGY; MEDIEVAL LITERATURE. Introduction to the comparative and historical grammar of the Romance languages, with special attention to Old French and Provençal. Reading of selected texts and comparative and historical study of the lyric and narrative poetry of the Middle Ages, especially in Old French and Provençal. Special attention to the Carolingian and Arthurian cycles, their origin and diffusion from the earliest times down to Tennyson and Wagner. *Prerequisites, French 5-6, Latin 1-2.* PROFESSOR SHEPARD.

Spanish

ASSOCIATE PROFESSOR SUPER

1-2. ELEMENTARY SPANISH. Pronunciation, inflection, the laws of syntax and their application. Translation of simple prose; writing from dictation; oral and written exercises in composition. *Open to juniors.*

3-4. ADVANCED GRAMMAR AND MODERN PROSE. Continued practice in composition, dictation, and oral drill. Translation and sight reading, with constant reference to morphology and idiom in connection with the text. Representative works of such authors as Cervantes, Alarcón, Galdós, Valera, Valdés. *Prerequisite, 1-2, or 2 or 3 units of entrance Spanish.*

Italian

PROFESSOR SHEPARD

1-2. INTRODUCTION TO MODERN ITALIAN; DANTE. First semester: grammar, composition, rapid reading. The object of this course is the acquisition of a reading knowledge of modern Italian. Selected short stories are used as texts. Second semester: reading of selected *canti* of the *Divina Commedia,* with much outside reading, including a study of Dante and his times, especially his relation to earlier poetry, Provençal and Italian, and to the religious and political thought of the Middle Ages. *Senior course. Prerequisites, French 3-4, Latin 1-2.*

ENGLISH LANGUAGE

PROFESSOR RISTINE

1-2. ANGLO-SAXON; MIDDLE ENGLISH. First semester: Introduction to the language and literature of England before the Norman Conquest. Bright's *Anglo-Saxon Reader* is the basis of study, accompanied by lectures on the history, structure, and vocabulary of the English language. Second semester: Chaucer, his century, and his contemporaries. *The Canterbury Tales* are read, parts of the *Troilus and Criseyde* and the minor poems, and selected texts illustrating the various Middle English dialects and literary types. *Open to juniors and seniors.*

Hebrew

Mr. Ibbotson

1-2. The Elements of Hebrew. Harper's *Hebrew Method and Manual*, and *Elements of Hebrew*. Chapters from *Genesis, Ruth, Samuel*, and *Kings*. Kittel's *Biblia Hebraica*. *Open to seniors.*

Group B

English Composition and Public Speaking

Professor Lewis, Professor Rudd, Associate Professor Fancher, and Associate Professor Marsh

Public speaking in some form is required of every student from the time he enters until he graduates. English composition is required through the first two years, and is elective the last two.

It is believed that the mastery of English cannot best be taught by written method alone. Since the language of daily life is mainly oral, the greater part of the instruction in it is made oral rather than written.

All courses in this department, except English Composition 5-6 and 7-8, are required, and all are one-hour courses unless otherwise stated.

English Composition

1-2. Freshman English Composition. The study and application of the elementary principles of English composition. The technique of writing. Weekly themes. *One hour a week in the first semester; three hours a week in the second. English Composition 1-2 and Public Speaking 1 constitute a year-course.* Associate Professor Fancher.

3. Sophomore English Composition. Advanced study and practice. Themes. *First semester, two hours a week. English Composition 3 and Public Speaking 14 constitute a year-course.* Professor Rudd.

5-6. Junior English Composition. Advanced study and practice for those looking forward to journalism, authorship, or English teaching. *Open to juniors who have attained a grade of credit in 3-4. Three hours a week.* Professor Lewis.

7-8. Senior English Composition. A course for selected seniors, who under supervision criticise freshman themes (English Composition 1-2). Each is responsible for the themes of a group of freshmen. There is a conference upon each piece of writing. The results are subject to revision by the instructor. The meetings of the class are occupied with discussions of special forms of writing, and considerable practice work in each form is done. *Three hours a week. Prerequisite, 5-6.*

Associate Professor Fancher.

Public Speaking

1. Elements of Public Speaking. The production and control of the voice, vowel and consonant sounds, the correction of vocal faults. The voice in speech: articulation, pronunciation, force, rate, pitch, timbre, emphasis, inflections, delivery, phrasing. Personality in speaking: physical interpretation, gesture, action. Short speeches (125-200 words) every two weeks. *Two hours, first semester. Public Speaking 1 and English Composition 1-2 constitute a year-course.*

Associate Professor Marsh.

3-4. Freshman Declamation. Each freshman appears three times during the year with a prose declamation 350-400 words in length. Three drills are required for each appearance.

Associate Professor Marsh.

5-6. Sophomore Declamation. Each sophomore appears once each semester with a prose declamation 350-400 words in length. Two drills are required for each appearance. The second declamation may be original. Professor Lewis.

7-8. Junior Declamation. (A) Each junior appears once each semester with a speech about 400 words in length. One drill is required for each appearance. The second speech may be a poem selected from some standard author. Professor Lewis.

(B) For a limited number of approved men an alternate course in dramatic action is offered. The aim of this course is the dramatic presentation of masterpieces of the drama for the purpose of developing physical expression on the platform. *Open to juniors approved by the head of the department and the instructor in the course. Fee, $5.00.*

Associate Professor Fancher.

9-10. Junior Discussions. Original argumentative orations, 700-900 words in length, on approved propositions, affirmative and negative. Each junior appears once a semester. No drills required.

Professor Lewis.

11-12. Senior Orations. Each senior appears once each semester with an original oration on an approved subject, 800-1000 words in length. No drills required. Professor Lewis.

14. Sophomore Debate. Classroom study of the theory of argumentation and debate, including the analysis of propositions, methods of proof and rebuttal, briefing, and platform practice. Classroom debates. *Second semester, two hours a week.* Associate Professor Marsh.

15-16. Junior Debate. Advanced classroom debates.

Professor Lewis.

17-18. Senior Debate. Advanced classroom debates.

Associate Professor Marsh.

English Literature

PROFESSOR RISTINE AND PROFESSOR RUDD

1-2. GENERAL INTRODUCTION TO ENGLISH LITERATURE. A rapid survey of the facts of English literary history from the beginnings, supplemented by outside reading, and accompanied by classroom study of the greater English poets, especially Spenser, Milton, Pope, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning. Lectures, recitations, and essays. *Open to sophomores and juniors.*

PROFESSOR RUDD.

3-4. THE SEVENTEENTH AND EIGHTEENTH CENTURIES. First semester: the work includes the seventeenth century lyric; the poetry and prose of Milton; the work of Bunyan, Browne, Dryden, and others; with special stress on the social and political conditions of the time. Second semester: a study of selected masterpieces from the Augustan writers, with wide outside reading in the literature of the century. Special attention to the development of modern prose style, the rise of the periodical essay and the pamphlet, and the beginnings of the novel. *Prerequisite, 1-2.* PROFESSOR RUDD.

5-6. THE ROMANTIC PERIOD AND VICTORIAN ERA. First semester: the poets and prose writers concerned in the revival of imaginative literature between 1780 and 1832, particularly Cowper, Burns, Wordsworth, Coleridge, Lamb, Hazlitt, and DeQuincey. Second semester: a study of as many of the Victorian writers as time permits—Macaulay, Carlyle, Mill, Arnold, Tennyson, the Brownings, Newman, Ruskin—with a course of outside readings in the nineteenth century novel. *Prerequisite, 1-2.* PROFESSOR RISTINE.

7-8. AMERICAN LITERATURE; CONTEMPORARY LITERATURE. First semester; the chief American poets and prose writers of the nineteenth century, emphasizing their relation to contemporary English literature and their expression of our national traits and ideals. Second semester: a study of the writers, chiefly British, who have contributed most to the advance of poetry, drama, and the novel, since about 1890. *Prerequisite, 1-2.* (Not offered in 1923-1924).

9-10. THE ENGLISH BIBLE AND SIXTEENTH CENTURY PROSE. A critical and literary study of the King James version of the Bible, preceded by a review of the Oxford Reform Movement, the English Reformation, and a study of selected prose writers of the Elizabethan period. *Open to seniors who have completed with credit one year course in this department.* PROFESSOR RISTINE.

11-12. SHAKESPEARE AND THE ELIZABETHAN DRAMA. Shakespeare is the center of study for the year. All the plays are read, with critical

study of certain dramas representative of the different stages in the development of his art. Lectures on the history of the drama from the beginnings to 1642; collateral reading in the minor Elizabethan playwrights. Library topical work and practice in handing original sources. Term theses required. *Open to seniors who have completed with credit at least one year-course in this department.* PROFESSOR RISTINE.

For ANGLO-SAXON and MIDDLE ENGLISH, see under English Language, page 38.

PHILOSOPHY

PROFESSOR SQUIRES

1-2. PSYCHOLOGY; LOGIC. First semester: a general introduction to the study of philosophy and pedagogy. The elements of descriptive, physiological, and genetic psychology. Text-books, lectures, and reports on assigned readings. Second semester: deductive and inductive logic, with rules of evidence as formulated by such writers as Greenleaf and Stephen. *Sophomore course.*

3-4. PLATO TO SPENCER. The problems of philosophy from Plato to Spencer, with emphasis on metaphysics and aesthetics, and the relation of philosophy to current belief. Lectures, papers, and readings from sources. *Junior course.*

5-6. CURRENT PROBLEMS IN PHILOSOPHY; PHILOSOPHICAL CLASSICS. Studies in pragmatism, idealism, realism; in social, abnormal, and experimental psychology; and in advanced logical theory. The reading of Kant's *Critique of Pure Reason,* Locke's *Essay Concerning Human Understanding,* Schopenhauer's *The World as Will and Idea;* or American philosophical writers. *Prerequisite, 3-4.*

7-8. PEDAGOGY. The history, science, principles, and theory of education. The practical problems of education, including methods, teaching, and the reading of educational classics. *Prerequisite, 1-2.*

TEACHERS' CERTIFICATE. Under the rules of the New York State Education Department, a "Professional Certificate," valid for three years, is granted to a graduate of an approved college. At the end of three years' successful experience in teaching, a "College Graduate Certificate" will be issued, valid for life. This exempts from further examination, except in certain cities. A student who desires this certificate must complete the course in pedagogy approved by the Education Department.

History

PROFESSOR BONHAM

In every course in this department a text-book forms the basis of the student's work. This is supplemented by occasional lectures, note-books, problems, reports, quizzes, and map-drawing. A considerable amount of library work is required of every student, as a means of introducing him to the literature of the subject, source and secondary. History 1-2 is a prerequisite for all other history courses. Undergraduates are advised to take it in freshman year, both as a preparation for other history courses and as a background for the social sciences and literature. History 1-2 and any other three courses constitute a major in history.

1-2. MEDIEVAL AND MODERN EUROPE. A general survey in which the leading features of medieval civilization are studied, with the evolution therefrom of modern nations and their institutions. *Open to freshmen and sophomores.*

3-4. ENGLAND AND THE BRITISH EMPIRE. A rather detailed study of the rise and development of English institutions, and their spread to other parts of the world. Such items as language, law, parliamentary government, colonization, etc., are stressed. *Open to sophomores and juniors. Prerequisite, 1-2. Alternates with 5-6.*

5-6. THE NEAR EAST; THE WORLD WAR. The history of the Balkan Peninsula in its relation to the rest of Europe is surveyed as a background for the study of the causes, progress, and results of the World War. *Open to sophomores and juniors. Alternates with 3-4.* (Not offered in 1923-24.)

7-8. THE COLONIZATION OF NORTH AMERICA; DEVELOPMENT OF THE UNITED STATES. The European background; the establishment of European institutions in America; the struggles for independence; the establishment of the Federal government; the evolution of the American nation. *Prerequisite, 1-2. Open to juniors and seniors. After 1924-25 this course will alternate with 9-10.*

9-10. CANADA; LATIN AMERICA. First semester: the origin, rise, and development of the Dominion of Canada, her relations with the United States, and her place in the British Empire. Second semester: the transfer of Spanish and Portugese institutions to America; the wars of independence; the development of the Latin American republics; their relations to the United States and to world affairs. Undergraduates are urged to elect this course in connection with Political Science 6. *Prerequisite, 1-2. Open to juniors and seniors. After 1923-24 this course will alternate with 7-8.*

Political Science

Professor Wood

1-2. American Government. The organization and actual working of government, national, state, and local, in the United States. Cases in constitutional interpretation. *Open to sophomores.*

3-4. Comparative Government. An introduction to the problems of government: the nature of the state, sovereignty, separation of powers, representation, suffrage, individual rights, etc. The constitutions of England, France, Germany, and Switzerland. *Prerequisite, 1-2.*

6. International Relations. The organization and conduct of relations among states. An introduction to world politics. *Second semester. Prerequisite, Law and Civil Polity 1.*

Law and Civil Polity

Professor Davenport

1-Political Science 6. The Theory and Practice of Democracy. The nature, development, merits, and limitations of democracy, with special attention to the course of popular government in the United States. Nationalism and internationalism, particularly in their bearings upon the American government and people. Lectures and discussions. Collateral reading in Bryce's *Modern Democracies. First semester. Open to seniors who elect Political Science 6.*

3-Economics 6. Social Evolution; the Trust Problem. First semester: a course in sociology, using Giddings' *Elements of Sociology* as a text-book. For the current year the collateral reading of H. G. Wells' *The Outline of History* is required. Second semester: Corporation and Labor Problems. See Economics 5-6. *Senior course. Prerequisite, Economics 1-2, except by special permission of the instructors.*

Economics

Professor Patton

1-2. Economic Institutions. First semester: a critical study of present financial institutions and the social service they perform in collecting capital for use in the production and exchange of goods. Second semester: the financial policy of corporations and its social regulation. *Open to juniors.*

3-4. Economic Progress. First semester: a study of the growth of technical knowledge, mechanical invention, and economic organization with a view to explaining the historical increase in the productivity of labor. Second semester: a detailed consideration of the factors

determining general and local productivity at the present time. *Open to juniors.*

5-6. ECONOMIC PROBLEMS. First semester: public finance and the labor problem. Second semester: the trust problem. *Economics 6 may be elected with Law 3 as a year-course. Prerequisite 1-2, except by special permission of the instructors.*

ART

PROFESSOR FITCH, PROFESSOR CHASE, ASSOCIATE PROFESSOR FANCHER, AND MR. ROOT

1-2. ANCIENT ART. First semester: Greek sculpture, architecture, and vase-painting. Second semester: Roman sculpture, painting, architecture, and construction; early Christian and Byzantine art; transition to medieval art. A text-book, supplemented by illustrative material, including charts, photographs, and lantern slides; collateral reading. *Open to seniors.* PROFESSORS FITCH AND CHASE.

3-4. APPRECIATION OF ART. A consideration of the appearance of simple objects, the nature of color and color contrast, the commoner methods of representation, graphic themes and their treatment, etc., followed by a discussion of schools of painting. For illustrative purposes actual drawings and paintings, rather than photographs, are used. *Open to seniors and juniors in two divisions of ten men each. Three hours a week for six weeks. Credit, one semester-hour.* MR. ROOT.

5-6. CHORAL MUSIC. The singing, largely *a capella,* of motets and antiphonals by Palestrina, Leisring, and Praetorius, chorals by Bach, choruses by Händel, Mendelssohn, and Schubert, and anthems by Gounod, Tschaikowsky, Gretcheninov, Stainer, Henschel, Sullivan, and other good modern composers. Those taking this course constitute the Chapel Choir. Open to all men approved by the instructor. The basis of approval is ability to sing. *Three hours a week throughout the year. Credit, 3 semester-hours.* ASSOCIATE PROFESSOR FANCHER.

Group C

MATHEMATICS

PRESIDENT FERRY, PROFESSOR CARRUTH, AND PROFESSOR H. S. BROWN

1-2. ALGEBRA; TRIGONOMETRY. First semester: introductory review, functions and their graphs, theory of equations, determinants, partial fractions, permutations and combinations, infinite series. Second semester: theory and use of logarithms, definitions and relations of the trig-

onometric functions of acute angles and of angles in general, the solution of right and oblique triangles. *Required of all freshmen except those who enter with four units of mathematics.* PROFESSOR BROWN.

3-4. ANALYTIC GEOMETRY; CALCULUS. First semester: an elementary course in plane analytic geometry. Cartesian and polar coordinates, simple curve-tracing, study of the straight line and conic sections. Second semester: differentiation and simple integration, with applications to algebra, geometry, and mechanics. *Prerequisite, 1-2, or four units of entrance mathematics.* PROFESSOR CARRUTH.

5-6. CALCULUS; ANALYTIC GEOMETRY. Further study of differential and integral calculus, and analytic geometry, including analytic geometry of three dimensions. Applications. *Prerequisite, 3-4.* PROFESSOR CARRUTH.

7-8. DIFFERENTIAL EQUATIONS; PROJECTIVE GEOMETRY. First semester: the solution of the simpler types of differential equations, with applications to physics. Second semester: elementary synthetic geometry, involving ranges of the first and second order, and construction. *Prerequisite, 5-6.* PROFESSOR CARRUTH.

BIOLOGY

PROFESSOR MORRILL AND MR. WILLARD BROWN

1-2. GENERAL BIOLOGY. The observation of living organisms representing the great groups of plants and animals, together with the study of their structure, is used as an introduction to the phenomena of life. After the general study of both plants and animals, attention is focused on animal biology, followed in the second semester by the study of plant biology. In the laboratory and lectures emphasis is placed on the function and form of organs as dependent on each other, and on the laws of living organisms. *Prerequisite to all later courses. Laboratory fee, $20.*

3-4. ZOOLOGY. First semester: the study of invertebrate animals, comprising both the structure and the physiology of representative forms. Second semester: the biology of the fish, bird, and mammal, with attention to the most important facts of evolution and of eugenics. *Prerequisite, 1-2. Laboratory fee, $20.* (Not offered in 1923-24.)

5-6. ANATOMY; EMBRYOLOGY. First semester: the structure and physiology of a mammal; the cat or rabbit as a representative vertebrate. Second semester: the study of the development of the frog and the chick, supplemented by that of an elasmobranch and a mammal, gives an opportunity to trace the growth of the organs of the body, and

serves as an introduction to microscopical technique. *Prerequisite, 1-2. Laboratory fee, $20.*

7-8. ELEMENTARY BACTERIOLOGY; PHYSIOLOGY. First semester: a familiarity with the methods of bacteriology is secured by the study of non-pathogenic bacteria and by an introduction to the technique of water and milk examination. Second semester: the minute structure of the organs of vertebrates as a basis for the study of physiology. The phenomena of motion, secretion and excretion are considered. *Prerequisite, 5-6. Laboratory fee, $20.*

CHEMISTRY

PROFESSOR A. P. SAUNDERS AND PROFESSOR ERSKINE

All courses in chemistry require two hours in the lecture-room and four hours in the laboratory each week, but are reckoned as three-hour courses. The laboratory fees are $25 a year.

1-2. ELEMENTARY COLLEGE CHEMISTRY. A thorough discussion of the fundamental laws and theories of chemistry, together with a study of the gases, the metals, and the periodic system of the elements. In the lecture room special emphasis is laid on chemical calculations, and in the laboratory a considerable number of quantitative experiments are made, to illustrate the laws of combining proportions, etc.

PROFESSOR SAUNDERS.

3-4. ANALYTICAL CHEMISTRY. Theory of solution. Application of the ionization theory to analytical procedure. Study of selected typical gravimetric and volumetric methods. *Prerequisite, 1-2. Alternates with 5-6.*

PROFESSOR ERSKINE.

5-6. ORGANIC CHEMISTRY. Aliphatic compounds. Aromatic compounds. A part of the course is devoted to the chemistry of nutrition, agricultural chemistry, or other selected special topics. *Prerequisite, 1-2. Alternates with 3-4.* (Not offered in 1923-24.)

7-8. PHYSICAL CHEMISTRY. A study of the theories and laws of chemical phenomena. Gases, liquids, solids, solutions, colloids, thermochemistry, equilibrium, the phase rule, reaction velocities, electrical conductance, and a brief consideration of radioactivity and atomic structure from the chemical point of view. Laboratory work illustrating the fundamental principles considered in the class-room. Lectures, recitations, and laboratory. *Prerequisite, 3-4, and Physics 1-2, except in cases of special fitness, subject to the approval of the department.*

PROFESSOR ERSKINE.

Physics

Professor S. J. Saunders

1-2. General Physics. The general principles of mechanics, sound, heat, light, electricity, and magnetism. Lectures, recitations, and laboratory work. *Open to sophomores who have not received credit for entrance physics. Laboratory fee, $5.*

3-4. Mechanics, Heat, Sound, and Light. Lectures and recitations. *Open to juniors and seniors. Prerequisite, 1-2, or the equivalent in entrance physics. Alternates with 5-6.*

5-6. Electricity and Magnetism. Lectures and recitations. *Open to juniors and seniors. Prerequisite, 1-2, or the equivalent in entrance physics. Alternates with 3-4.* (Not offered in 1923-24.)

7-8. Experimental Physics. Lectures and laboratory. Quantitative work, with written reports discussing the theory of the experiments and the results obtained. *Open to seniors. Prerequisite, 1-2, or 3-4, or 5-6. Laboratory fee, $10.*

Note. Physics 1-2 or 7-8 with any one of the other courses will meet the requirements in physics for admission to the better medical schools.

Geology

Professor Dale

1-2. General Geology. An introductory course, including studies of the various geological agencies and processes responsible for the past and present surface features of the earth, the general composition and structure of the earth's crust, and the geological history of the earth. Lectures, recitations, laboratory, and field trips. *Open to sophomores. Laboratory fee, $4.*

3-4. Mineralogy. A descriptive and determinative study of the important rock-forming minerals and others of particular scientific and economic importance, including an introductory course on crystal forms. Lectures and laboratory. For those majoring in geology, this course should parallel or follow 1-2 and precede 5-6. *Prerequisite, Chemistry 1-2 or its equivalent. Laboratory fee, $10.*

5-6. Economic and Structural Geology. The mineralogy, occurrence, structure, and origin of the non-metallic and metallic ore deposits, including the geology of petroleum and of water supply; the composition and structure of the earth's crust; geological mapping; field problems. *Prerequisite, 1-2. Laboratory fee, $4.*

7-8. Physiography and Economic Geography. The description, origin, and interpretation of the earth's forms, and their influence upon man, as considered in economic, military, political, and regional geo-

graphy. The elements of oceanography, meteorology, and climatology. Lectures, recitations, laboratory, and field work. *Prerequisite, 1-2. Alternates with 9-10.* (Not offered in 1923-24.)

9-10. PETROGRAPHY AND PETROLOGY. A microscopic study of rock-forming minerals and rocks, followed by the history, origin, and classification of rocks. Laboratory, lectures, and field work. *Prerequisite, 3. Alternates with 7-8.*

PHYSICAL EDUCATION

MR. PRETTYMAN, MR. CARROLL, MR. GÉLAS, AND MR. MCBRIDE

ATHLETICS, PHYSICAL EXERCISE, AND HYGIENE. Indoor and outdoor athletics, including foot-ball, soccer, tennis, track, golf, ice-hockey, basket-ball, fencing, skating, skiing, base-ball, calisthenics, and gymnastic work, according to the season and the weather, with special tests relative to health and exercise. Participation in the practice of a college athletic team is accepted as an equivalent. Beginning with the class of 1927, all undergraduates shall during their college course devote at least 12 hours to golf, 12 hours to tennis, 12 hours to skating, and 6 hours to skiing. A physician's certificate of physical fitness is required of all undergraduates. *Required of all undergraduates. Three periods a week.*

HONORS AND DEGREES

Honors and Commencement Appointments

Department honors may be awarded at graduation in the following subjects or groups of subjects: Greek; Latin; German; French; Italian and Spanish; English Composition; Public Speaking; English Language and Literature; Philosophy; Economics; Political Science; History; Mathematics; Biology; Chemistry; Geology and Mineralogy; Physics. An honor requires the attainment of an average standing of not less than 90 in the courses on which the honor is based, and a complete record of examinations in these courses. Students attaining a standing between 85 and 90 may also receive the honor, but only on a special recommendation by the head of the department, in which case extra work may be required. Usually all the work offered by a department must be taken; but no student is required to repeat in college a course accepted for admission to the freshman class, or to take more than three courses in Philosophy or four courses in Greek, German, French, History, or English Language and Literature (including English Language 1-2). In English Composition a student must take all the courses offered, and must submit an acceptable prize essay in each of the first three years and an acceptable Pruyn, Head, or Kirkland Oration in senior year. In Public Speaking a student must be an appointee to the Clark Prize Oration contest or to the McKinney Prize Debate.

The names of seniors who have high honor, honor, or credit grades for the senior year and for the entire course are announced at the final chapel of the year. The Valedictorian and the Salutatorian are the two members of the graduating class who have attained, respectively, the highest and the next to the highest standing for the entire course.

Commencement speakers are: the Pruyn Medal, Head Prize, and Kirkland Prize Orators; the Salutatorian, and the Valedictorian. If any one of these is not appointed, or if two appointments fall to one person, the Faculty may appoint others, not exceeding seven in all, from men of high honor grade and excellent rhetorical record.

Degrees

The only bachelor's degrees conferred by the College are Bachelor of Arts and Bachelor of Science. Detailed information in regard to the requirements for these degrees is to be found on pages 27-28.

The master's degree may be conferred upon graduates of Hamilton, or of another college with equivalent courses, for resident study for one year. A candidate for this degree must pursue work in two related subjects, in one of which he must submit an acceptable thesis. His studies and the subject of his thesis must be reported to the Faculty early in the first semester. He must successfully meet the semester examinations in his subjects, and at the end of the year an oral examination before a committee of two members of the Faculty. Bachelors not in residence but otherwise fulfilling these conditions may receive the master's degree in two years upon payment of regular tuition.

Honorary degrees are conferred only upon those who, having accepted advance notification, are present in person to receive them.

The Root Fellowship

The Root Fellowship in Science, established in 1894 by the Honorable Elihu Root, of the class of 1864, is ordinarily granted for a single year of graduate study at some American or European university approved for that purpose in each individual instance by the Faculty. It bears a stipend for the year of $500, payable in October, February, and May in equal installments. The payment of each installment of the stipend

is conditioned on the submission to the President by the fellow of satisfactory evidence of the successful progress of his studies. In the case of the third payment, this evidence shall consist of a comprehensive written report which shall be filed in the college records. At the request of the Faculty, the fellow shall, on some suitable date between the spring recess and Commencement, give a lecture or address to the College on a subject appropriate to his work of the year.

Any member of the senior class who has proved himself of a high order of scholarly attainment and has shown marked ability and special aptitude for research in one or more of the departments of science may be nominated to the Faculty for this award by the professors of those departments. From the men thus nominated, the Faculty will select by ballot by a two-thirds vote one who shall be recommended to the Trustees for appointment.

If the Faculty finds no suitable candidate in the graduating class of any year, it may recommend to the Trustees that the fellow appointed from the preceding class be continued in the fellowship for a second year, but no longer.

Scholarships

General Regulations

The income of the various permanent endowments enumerated below is used to provide scholarships for deserving undergraduates of slender means. Such scholarships are ordinarily granted for the first, second and fourth years only. The stipend paid for the second and fourth years is $150 if the recipient maintained an average of high honor (90 to 100) through the previous year, and $120 if the average mark was of honor grade (85 to 90) for that year; in all other cases the amount which the scholarship regularly bears is $90. A few of the scholarships are awarded under special rules.

No student may at one time hold more than one prize scholarship, and no student while holding a prize scholarship may be awarded a general college scholarship.

Applications, which should be made to the President in writing, are considered in their order. The President must be personally assured of the fidelity and actual need of applicants. Ordinarily the benefits of these foundations are assigned to needy and meritorious students who have been orderly and diligent and who are without entrance conditions, postponed examinations of long arrears, or deliquencies in standing or attendance. If an incumbent is extravagant, or is guilty of any gross impropriety, or neglects to stand above mediocrity, the aid will be summarily withdrawn. This rule applies to all scholarships, including the prize scholarships.

The State of New York provides in each assembly district five competitive college scholarships, based upon standing in Regents' examinations, and yielding $100 annually for four years. Successful competitors may enter any college within the State. A state scholarship, primarily covering tuition, is not ordinarily duplicated by a general college scholarship.

Approved candidates for the Christian ministry who need aid, may receive from $80 to $100 a year by placing themselves under the care of the Presbyterian Board of Education, the Congregational Educational Society, the Board of the Reformed Church, or other church authorities.

Scholarship Foundations

The amount of each foundation is $2,000, unless otherwise stated.

25 Founded by Andrew Carnegie.
1 Leavenworth (for a student of that name), $12,000.
1 S. B. Steere (for a relative or for five others), $10,000.
6 Laura Carter.
5 Julia J. McCartee, Darling Memorial, $9,525.
2 William E. Dodge, $5,000.
2 S. H. Jardin.
2 Marquand Estate.
2 Theodore S. Hubbard, $3,500.
2 Horace B. Silliman, $3,000.
1 Mrs. S. E. Baird, $2,500.
1 Charles D. Gilfillan, $2,500.
1 John R. Terrett Memorial, by A. P. Sloane.
1 D. Willis James.
1 Sylvester Willard Memorial.
1 Henry W. King.
1 Mrs. James L. Bradley.
1 J. B. Wells.

1 Alexander Folsom.
1 Marcus Judson, $1,000.
1 Vischer and Nichols, $748.50.
1 Roswell P. Flower.
1 Geneva Presbytery, $1,700.
1 C. C. Sheppard, $1,500.
1 William Burton, $1,500.
1 John J. Knox, $1,500.
1 P. Charles Cole, $1,000.
4 Soper Scholarships (for Rome scholars), $10,000.
1 Albert C. Phillips.
4 Melville E. Dayton Memorial (for Utica Free Academy scholars).
1 Mrs. Charlotte B. Sackett Memorial, $10,000.
1 Charles Holland Duell, $10,000.
1 O. T. Bundy.
4 Asa G. Pettibone.
3 W. D. Walcott.
1 Henry Scott McCall, $1,000.
2 J. Platt Underwood, $5,000.
1 James P. Soper.
1 Class of 1867.

Three other scholarship foundations are semi-proprietary or reserved for increment.

Senior Prize Scholarships

Four prize scholarships are awarded by vote of the Faculty at the close of junior year, as follows:

The Chauncey S. Truax Prize Scholarship in Greek, yielding $400 to that senior who, having entered Hamilton as a freshman with unconditioned preparation in three years of Greek, shall have stood highest in the Greek work of the first three years with an average grade of not less than 85.

The Edward Huntington Memorial Mathematical Scholarship, founded by Alexander C. Soper, LL.D., '67, yielding $250.

The Arthur W. Soper Latin Scholarship, yielding $250.

The German Scholarship, founded by the late Hon. Charles Holland Duell, LL.D., '71, yielding $250.

The awards are made in the order, first, of the values, and second, of the ages of the foundations.

Each scholarship is awarded to the student of highest standing in the department in which it is offered, unless another of these scholarships is already assigned to him. In this case the award is made to the next highest in the depart-

ment who has not received an award. To be eligible a student must have taken all the courses of the department concerned up to the end of junior year, including prize examinations, and upon receiving an award must elect the courses of the department through senior year. To receive the stipend, an appointee must complete senior year in this college and pay in full the college bills of that year.

Junior Prize Scholarships

The Oren Root Prize Scholarships. Two scholarships, of $100 each, are awarded to the two juniors who have the best record in mathematics during the freshman and sophomore years. To be eligible for the award, a student must elect mathematics through junior year.

Freshman Prize Scholarships

The Fayerweather Scholarships. Five scholarships, yielding $100 each for the freshman year, are awarded to five men of the freshman class, provided there are five, who gain the highest marks in the entrance examinations at the College in September on fourteen and a half units of secondary school studies, as specified under Requirements for Admission. A competitor who fails in any unit may not receive an award. Freshmen admitted in June may enter this September examination. Appointees to these scholarships are eligible to the Maynard and Brockway Entrance Prize competition (see "Prizes" 23, 24).

The John W. Vrooman Scholarship, yielding $100 for the freshman year, is awarded to the candidate who in September passes, with a grade of 70 or higher, the best oral examination at the College upon the Greek text of the *Gospel of Luke* and upon Homer's *Iliad,* Books 1-3. The *Gospel of Luke* is accepted for entrance in place of Books 2-4 of the *Anabasis.* Approved certificates are accepted for Book 1 of the *Anabasis* and other specified parts of the preparation. To receive the award a candidate must enter without a condition.

A competitor for this scholarship may also enter the Maynard and Brockway Entrance Prize Competition (see "Prizes," 23, 24) by taking examinations in the other subjects which he offers for admission.

Prizes

Prizes are conferred only upon those present to receive them on commencement day, unless excuses for absence have been granted by vote of the Faculty. Applications for excuse must be presented through the Dean in writing before the final Faculty meeting on Tuesday preceding commencement day.

1. Curran Prize in Greek and Latin. A foundation of $700 by relatives of the late Col. Henry H. Curran, of the Class of 1862, furnishes a prize in Greek and Latin, offered to juniors, the prize consisting of money and a silver medal, commemorative of Col. Curran. The award is determined by written examinations in Greek and Latin. The competition in a given year is based upon course 7-8, 9-10, or 11-12 in Greek, and upon course 5-6 in Latin.

2, 3. Hawley Prizes in Greek and Latin. A foundation of $500 by the late Martin Hawley of the Class of 1851, furnishes two book prizes, equal in value, one for excellence in Greek, and one for excellence in Latin. The competition in Greek is open to any undergraduate completing course 6; in Latin to any undergraduate completing a second year of college work.

4. Winchell Prize in Greek. A foundation of $1000 by the late Walter B. Winchell, M.D., of the Class of 1880, provides a prize of $50 to be awarded annually, with the approval of the Faculty, to the undergraduate who, beginning Greek in College, shall have made the best record in three year-courses in that language.

5. Brandt Prize in German. By Frederic P. Warfield, of the Class of 1896, in honor of the late Professor H. C. G.

Brandt, a prize of $50 is offered to seniors for excellence in German.

ORATION AND ESSAY PRIZES. All papers in any competition must be upon subjects assigned by the Faculty, and must be left with the President at a given day and hour. They must be typewritten upon one side of sheets about eight by eleven inches, with broad margins for binding. Pages must be properly numbered and fastened securely; they must not be rolled or folded. Each hundred words must be indicated by numbers in the margin. Each paper must be signed with a fictitious name, and accompanied by a sealed envelope similarly marked and containing the name of the author.

Papers not conforming to these requirements and papers submitted late will be returned to the writers without credit. Prize orations must not be published before they are spoken. Successful papers become the property of the Library.

6. CLARK PRIZE ORATION. A foundation of $1,000, begun by the late Aaron Clark, A.M., of New York, and increased by the late Henry A. Clark, of the Class of 1838, furnishes a prize for the senior excelling in original oratory.

Orations may contain not more than fifteen hundred words, and must be left with the President before noon of the first Saturday following the Easter recess. They are considered by the Reading Committee of the Faculty, who determine the six best orations, regardless of subject, provided there be six of sufficient merit. The orations are delivered on the Saturday evening of commencement week. The award is determined by a committee of five judges at the close of the exhibition, and is then announced.

Subjects, 1924: Foch, Man of Religion; National Righteousness by Legislation; The World Court; The Tyranny of Labor; The Race Question in American Colleges; Nationalism and Internationalism; The Poor Man in the Courts; George Bernard Shaw.

7. PRUYN MEDAL ORATION. A foundation of $500 by the late Chancellor John V. L. Pruyn, of Albany, furnishes a gold medal for the senior writing the best oration on "The Political Duties of Educated Young Men."

Subject, 1924: Latin America, the College Man's Opportunity.

8. HEAD PRIZE ORATION. A foundation of $1,000 by Franklin H. Head, LL.D., of the Class of 1856, furnishes a prize for the senior writing the best oration upon a theme relating to Alexander Hamilton.

Subject, 1924: Hamilton's Distrust of the Common People.

9. KIRKLAND PRIZE ORATION. A foundation of $500 by the late Mrs. A. R. Kirkland, of Clinton, furnishes a prize for the senior writing the best oration upon a theme in Biblical science.

Subject, 1924: The Ethics of Sinai and of the Sermon on the Mount.

Orations submitted by competitors in Pruyn, Head, and Kirkland contests may contain not more than twelve hundred words, and must be left with the President before noon of the first Saturday following the Easter recess. A senior may receive not more than one of these awards, though he may write on more than one subject. Each prize oration is delivered at the commencement exercises.

10. KELLOGG ESSAY PRIZES. A foundation of $700 by the late Charles C. Kellogg, of the Class of 1849, furnishes book prizes for two juniors, one sophomore, and two freshmen who excel in English essays.

Subjects, 1924: Juniors: The Atlantic Monthly and American Literature; The Social Creed of John Galsworthy. Sophomores: Prehistoric Yucatan. Freshmen: The Genesis of Railroads in New York State; The Business Genius of Henry Ford.

11. COBB ESSAY PRIZE. A foundation of $500 by the late Willard A. Cobb, of the Class of 1864, furnishes a prize of $25 for the undergraduate submitting the best essay on journalism.

Subject, 1924: Henry Watterson and Whitelaw Reid, Editors of the Old School.

12. HUTTON ESSAY PRIZE. A foundation of $500 by the late William Hutton, D.D., of the Class of 1864, furnishes a prize of $25 for the sophomore submitting the best essay on an assigned subject in Biblical history.

Subject, 1924: Legends of the Holy Sepulcher in the Middle Ages.

One subject is assigned for each prize offered. A competitor may write on more than one subject, but he may receive only one award in

any year. An award does not bar a student from competition in a subsequent year.

Essays may contain not more than thirty-five hundred words, and must be left with the President before noon of the first Saturday following the Easter recess. They are judged by a committee chosen by the Professor of Rhetoric and Oratory.

13. McKinney Prize Debate. A foundation of $1,500 by the late Charles McKinney, of Binghamton, furnishes two prizes of $50 and $25 for seniors excelling in extemporaneous debate.

The proposition for debate is chosen by the Professor of Rhetoric and Oratory and submitted to the Faculty for approval not later than April 1. It is announced to the College at the next morning chapel following its approval.

The Prize Debate is held on the Wednesday evening nearest June 1, at eight o'clock. Each debater on his first appearance may speak nine minutes; on his second, six. Notes may not be used in the debate. The award is made by a committee of five, not members of the Faculty, and is announced at the close of the debate. In making the decision, the judges determine (1) the stronger side of the argument as presented, and (2) the best and the second best debaters. These receive the prizes of $50 and $25 respectively.

Subject, 1923: The Power of the Supreme Court of the United States to declare federal statutes unconstitutional should be restricted.

14. McKinney Prize Declamation. A foundation of $700 by the late Charles McKinney, of Binghamton, furnishes book prizes for the two students in each of the three lower classes who excel in declamation.

Four contestants are annually chosen from each of the three lower classes upon the basis of their record in Tuesday rhetoricals up to the time of appointment. The competition is held in the College Chapel on the Friday afternoon of commencement week. The award is made by a committee chosen by the Professor of Rhetoric and Oratory.

15. Darling Prize in American History. A foundation by the late Charles W. Darling, of Utica, supplemented by a friend of the College, furnishes a prize of $35 for the senior having the best record in the courses in American History offered to his class.

16. Putnam Prize in American History. The gift of Dr. Frederick W. Putnam of Binghamton, supplemented by a friend of the College, furnishes a prize of books to the value of $20 for the senior having the second best record in the courses in American History offered to his class.

17. Soper Prize Thesis. A foundation of $1,500 by the late Arthur W. Soper, of New York, furnishes a prize of $75 for the best thesis on a topic in economics assigned by the Faculty.

The competition is open to all seniors who are taking a second or third year-course in Economics. The thesis subject for each class is announced toward the end of junior year. Theses are not limited as to length. They must be left with the President before noon of the Saturday following the Easter recess. They are judged by a committee chosen by the Faculty from outside their own number.

Subject, 1924: The Methods of German Reparation Payments.

18. Tompkins Prizes in Mathematics. A foundation of $1,200 by the late Hamilton B. Tompkins, A.M., of the Class of 1865, provides two prizes and four medals for juniors who excel in mathematics. The award is made upon the basis of an examination early in June, involving the mathematics of sophomore and junior years.

19. Holbrook Prize in Biology. A foundation of $1,000 given by the late David A. Holbrook, of the Class of 1844, furnishes a prize of $50 to the senior having the best record for three year-courses in biology.

20. Underwood Prize in Chemistry. A foundation of $3,000 begun by the late George Underwood, of the Class of 1838, and increased by J. Platt Underwood, of the Class of 1870, of Chicago, Ill., furnishes a prize for the senior who excels in chemistry.

21. Southworth Prize in Physics. A foundation of $500 by the late Tertius D. Southworth, of the Class of 1827, furnishes a prize for the senior who excels in physics.

22. MAYNARD ENTRANCE PRIZE. A prize of $100 is offered annually by Reuben Leslie Maynard, A.M., of the Class of 1884, of New York, N. Y., to that freshman who shall have passed the best entrance examinations in all the subjects of an admission group at the College in September, shall prove himself of good conduct and character in the College, and shall gain an average grade of high honor in his work through the freshman year.

23. BROCKWAY ENTRANCE PRIZE. A foundation established by the late Dr. A. Norton Brockway, of the Class of 1857, provides a prize of $25 annually which is offered to the freshman who shall have passed the second best entrance examinations in all the subjects of an admission group at the College in September and shall complete the work of the freshman year in an orderly manner.

GENERAL INFORMATION

Situation

The College is located at the center of New York State, in the county of Oneida, one mile from the village of Clinton. Nine miles to the northeast, lies the city of Utica, on the main line of the New York Central, accessible from Clinton both by trolley and by the New York, Ontario & Western railroad.

The College occupies a natural plateau nine hundred feet above the sea and three hundred feet above the immediate valley. Its campus is a park of ninety-five acres, shaded by venerable trees, with an easterly exposure, overlooking the Oriskany and Mohawk valleys. Its buildings, arranged in quadrangles, are modern and adequate, and with two exceptions are constructed entirely of stone. The naturally healthful conditions secured by the elevation and by air exceptionally pure and dry are supplemented by a private water supply from spring-fed reservoirs above the College, and by an extensive system of sanitation, constructed in accordance with the best modern practice and officially approved by the state authorities.

Buildings

DORMITORIES—Three dormitories afford exceptional accommodations for the greater part of the student body. Carnegie Hall (1904) and South College (1906) together receive about 140 men. They are fireproof and equipped with steam heat, broad fireplaces, hardwood floors, electric light, and bathrooms. North College (1842), now extensively improved, affords comfortable accommodations for 54 men at more moderate rental.

All rooms are arranged in suites, which are restricted to two, three, or four occupants. No reduction is made in the

rental if a suite is occupied by less than the designated number of men. Occupants provide their own furnishings; but full care of rooms is included in the rental. All rooms are leased for the academic year only, and the buildings are closed during vacations. Fuller details and the rules governing the leasing of rooms may be obtained from Edward M. Coughlin, the Bursar of the College.

SCIENCE AND RECITATION HALLS—Three buildings are devoted to the work of the science departments. Root Hall of Science (1897) houses the departments of physics, mathematics, and biology, with an entire floor for each. The Chemical Laboratory (1903), a two-story stone building, is devoted exclusively to the department of chemistry. Knox Hall (remodelled 1885) contains the Museum of Natural History with the lecture rooms and laboratory for mineralogy and geology. Benedict Hall of Languages (1897) and Truax Hall of Philosophy (1900) provide ample recitation rooms for all other departments of instruction. All buildings are lighted by electricity.

CHAPEL AND Y. M. C. A.—The Chapel (1828, enlarged 1897), occupying the central site on the campus, is the home of the religious life of the College. It contains a fine organ and memorial windows. Here are held public lectures and the commencement exercises. It is also the College Church. Silliman Hall (1889), at the west end of the campus, accommodates the Young Men's Christian Association and provides a meeting place for the students.

COMMONS—The Soper Commons (1903), a dignified Gothic dining hall, has accommodations for furnishing table board to two hundred students. It is the center of the collective social life of the College. Here are held college dinners, undergraduate gatherings, and the alumni luncheon at commencement.

GYMNASIUM AND ATHLETIC EQUIPMENT—The Soper Gymnasium (1891, remodeled 1912) is equipped to afford facilities

for indoor training. The ground floor contains the director's office, a large locker room with steel lockers, dressing rooms, showers, and a stock-room. The main exercising floor above is fitted with an oval running track, a basket-ball court, and wall and floor apparatus.

The Russell Sage Building (1922) houses a 220-yard cinder running track and an enclosed playing-field about 85 by 200. This serves in winter as an ice-hockey rink and in other seasons, particularly during inclement weather, for the scheduled physical training hours of the undergraduate body generally. This building provides at the same time a well-lighted space for football practice of certain kinds in the late afternoon hours of October and November and a place for baseball in the spring and tennis in the rainy days of summer.

The Steuben Athletic Field, adjoining the main group of buildings, has a well-drained and watered football field and jumping pits, surrounded by a quarter-mile track and a 220-yard straight-away, both of cinders; a soccer field; a new baseball diamond beyond the Russell Sage Building, carefully levelled and drained; and tennis courts.

The equipment of the College for physical training includes also the Hamilton B. Tompkins Golf Course of six holes, covering about forty acres, all in the westerly portion of the campus, with the first tee and the sixth green each within a few rods of the gymnasium.

LIBRARY—The new Library (1914), the gift of Mrs. Ellen Curtiss James, is a substantial fireproof building, well adapted to the needs of the College. It has a large reading room, 30 by 65 feet in size, with an open stack room adjoining, accommodating a selected students' library of about 10,000 volumes; a main stack room with a capacity of 100,000 volumes; several seminar rooms and studies for the use of undergraduates and Faculty; and a memorial hall containing the college collection of portraits and objects of historical interest.

The Library is open every college week-day from eight to

twelve-thirty, from one-thirty to six, and from seven-thirty to ten; on Sundays in the afternoon and evening; and in vacations daily from nine to four. Instruction is given to new students in the use of the catalogues and reference books, and in methods of working in the Library.

At present the Library contains about 103,000 volumes and 24,000 pamphlets. It is card-catalogued both by authors and by subjects. About 400 current periodicals and serials are received. Special endowments, recently increased by the contribution of $75,000 from the Carnegie Corporation, and the bequest of $100,000 from the late Hamilton B. Tompkins, of the Class of 1865, supplemented by appropriations from the general funds of the College, provide for its growth. There were added 6,451 volumes during the year 1922-23. In the selection of books, primary regard is given to the wants of the several departments of instruction; but recommendations for the purchase of books of general interest, or such as any undergraduate desires for his own reading, always receive attention and are acted upon favorably if possible.

Scientific Collections

The Museum of Natural History, located in Knox Hall, contains valuable scientific collections, the most important of which are classified as follows:

GEOLOGY AND MINERALOGY: 2,500 specimens of fossils and rocks to illustrate the geology of New York; 2,000 specimens of fossils and rocks to illustrate the geology of the United States; 600 fossils, mainly from the early paleozoic formations of Europe; 2,000 or more valuable specimens of fossils and minerals, the gift of John D. Conley, '69; 1,000 fossils, mainly from the early paleozoic formations of New York, the gift of Egbert Bagg of Utica; 1,000 ores, building stones, and other minerals of economic value, from many important mining regions of the world; 10,000 minerals from many parts of the world, but especially from New York, largely accumulated by the late Professor Oren Root, '33. One special collection is named "The Oren Root Collection of New York State Minerals," containing many unusual specimens, some of which are the finest known of their several kinds.

BIOLOGY: The Barlow collection, comprising 13,000 insects, presented by the late Hon. Thomas Barlow, of Canastota, supplemented by fine groups of birds and mammals; 500 other specimens of birds well mounted and labeled; 3,000 land, fresh-water, and marine shells, accurately classified and arranged; a collection of Japanese shells and insects, presented by Rev. Henry Loomis, '66; the extensive Herbarium of the late Dr. H. P. Sartwell, of Penn Yan, well known as a fine exhibition of North American flora; a large and valuable collection of butterflies, presented by Benjamin W. Arnold, '86, of Albany; three cases filled with modern sea-weeds, sponges, corals, star-fishes, crustaceans, etc.

The Museum contains also a collection of about 2,000 Indian relics, especially arrow-heads, from various parts of the United States, and many miscellaneous objects of interest.

Medical Service

RESIDENT PHYSICIAN. By arrangement of the Board of Trustees, Dr. Roy B. Dudley, of Clinton, a physician of many years of successful experience, is regularly available to all officers and undergraduates of the college at his office in Silliman Hall from 8:15 to 8:30 a. m. on week-days and from 10 to 10:15 a. m. on Sundays.

INFIRMARY. Through the kindness of the Young Men's Christian Association, a suite of three rooms in Silliman Hall has been made available for use as a hospital ward. In the largest of these rooms are three or four beds, while a smaller room will serve as a contagious ward when occasion demands. Changes are now in progress whereby suitable infirmary quarters will be available at an early date in the Perry H. Smith Hall.

A foundation, known as the Robert Macalister Farrell Nursing Fund, donated by Dr. Thomas H. Farrell, of Utica, in memory of his son, Robert Macalister Farrell, '21, is to be applied toward the cost of hospital care for undergraduates.

Religious Instruction

The College, while under no denominational control, is distinctly Christian, and regards divine worship as a regular

part of the life of its students. It avows its historic debt both to the Christian faith and to the patriotic devotion of its founders, and treats the devout recognition of God, revealed in His world and His word, as elemental and indispensable in the development of true manhood.

As a required college exercise there is held in the Chapel each week-day morning at eight a brief service, with Bible reading, song, and prayer. Each Sunday morning at half-past ten o'clock there is public worship, at which all members of the College are regularly required to be present. The College preachers for the year 1922-1923 were:

The Very Rev. Howard C. Robbins, D.D., Cathedral of St. John the Divine, New York, N. Y.

Rev. Robert G. McGregor, D.D., New Rochelle, N. Y.

Rev. Willard P. Soper, D.D., Stamford, Conn.

Rev. William W. Bellinger, D.D., New York, N. Y.

Pres. Kerr D. Macmillan, S.T.D., Wells College, Aurora, N. Y.

Pres. Murray Bartlett, D.D., Hobart College, Geneva, N. Y.

Rev. William P. Schell, New York, N. Y.

Rev. Edmund M. Wylie, Montclair, N. J.

Rev. Charles C. MacLean, D.D., Batavia, N. Y.

Rev. Henry H. Barstow, D.D., Auburn, N. Y.

Rev. Charles E. Hamilton, D.D., Cazenovia Seminary, Cazenovia, N. Y.

The Rt. Rev. Charles Fisk, D.D., LL.D., Utica, N. Y.

Pres. George B. Stewart, D.D., Auburn Theological Seminary, Auburn, N. Y.

Rev. William P. Garrett, Moira, N. Y.

Principal Alfred E. Stearns, L.H.D., Phillips Academy, Andover, Mass.

Rev. Frank M. Weston, D.D., Rochester, N. Y.

Prof. Ambrose W. Vernon, D.D., Carleton College, Northfield, Minn.

The Rt. Rev. Edwin H. Hughes, D.D., Malden, Mass.

Prof. John Baillie, Auburn Theological Seminary, Auburn, N. Y.

Pres. Clarence A. Barbour, D.D., Rochester Theological Seminary, Rochester, N. Y.

Rev. Wilbur V. Mallalieu, D.D., Englewood, N. J.

Rev. Anthony N. Petersen, Scarborough, N. Y.

Rev. Malcolm L. MacPhail, Ph.D., Auburn, N. Y.

Prof. Harry Lathrop Reed, D.D., Auburn Theological Seminary, Auburn, N. Y.

Rev. Warren S. Stone, D.D., Rochester, N. Y.
Rev. J. Lovell Murray, D.D., Toronto, Can.
Pres. Charles A. Richmond, LL.D., Union College, Schenectady, N. Y.
Rev. George W. Wellburn, D.D., Scranton, Pa.
Rev. William P. Merrill, D.D., New York, N. Y.
Rev. John Sheridan Zelie, D.D., Troy, N. Y.
Rev. Darwin F. Pickard, D.D., Watertown, N. Y.
Ex-Pres. M. Woolsey Stryker, D.D., LL.D., Rome, N. Y.
Rev. Samuel V. V. Holmes, D.D., Buffalo, N. Y.
Pres. Frederick C. Ferry, Sc.D., LL.D., Hamilton College, Clinton, N. Y.

Every Christian man entering College is urged to become a member of the College Church, by letter either of commendation or of transfer. The Lord's Supper is celebrated three times in the college year.

The Young Men's Christian Association maintains an active and influential life. Under its direction voluntary religious meetings and courses of special Bible study are conducted for each college class.

Myers Lectures

Under a memorial endowment established by the mother of the late John Ripley Myers, '87, public lectures on subjects of general interest are given annually before the College by persons of distinction. During the year 1922-1923 lectures upon this foundation were delivered as follows:

ALEXANDER WOOLLCOTT — Saturday, December 9
Five French Women

DONALD BAXTER MACMILLAN, Sc.D. — Thursday, February 8
In Unknown Baffin Land

FRANK JEWETT MATHER, JR., Ph.D., L.H.D. — Thursday, March 15
The Modern Movements in Painting

CHRISTOPHER MORLEY — Wednesday, March 27
The Sunny Side of Grub Street

Undergraduate Organizations

GENERAL ASSOCIATION FOR UNDERGRADUATE ACTIVITIES—The following undergraduate organizations are included in the General Association for Undergraduate Activities: the athletic teams, intramural sports, the musical clubs, the dramatic club, and intercollegiate debating. The control of these various organizations, under the general rules laid down by the Faculty, is in the hands of a council or executive board of the General Association, consisting of three undergraduates, three members of the Faculty, and three alumni. An officer of the College is treasurer and all moneys pass through his hands.

Membership in the General Association is open both to undergraduates and to alumni on the payment of an annual tax. This tax for undergraduates cannot be more than $20. Payment of this fee is optional, but is expected of every undergraduate who is able. Alumni become members by subscribing annually any amount they choose, in return for which they receive an annual ticket of admission to all games and entertainments given by any of these college organizations, either at home or elsewhere.

LITERARY CLUBS—Several study clubs help to bring the members of the college community into closer personal touch. These, the German Club, the French Club, the Latin Club, the English Literature Club, the History Club, and the Biology Club, are directed by the heads of the departments concerned and meet weekly or fortnightly.

PUBLICATIONS—The undergraduate publications are *Hamilton Life,* a weekly; the *Hamilton Literary Magazine,* a monthly; the *Royal Gaboon,* a humorous quarterly; and the *Hamiltonian,* an annual. The *Blue Book,* a handbook of general college information, is distributed each fall by the Y. M. C. A.

Expenses

Annual college charges include the following:

FOR ALL UNDERGRADUATES

Tuition	$120
(Beginning with the Class of 1926)	150
Undergraduate Activities, not more than	20

FOR RESIDENTS OF THE DORMITORIES

Room rent in	
Carnegie Hall	$125 to $155
South College	115 to 145
North College	55 to 75
Electric light, by meter, about	10

The Soper Commons is organized co-operatively under the supervision of the Manager. The price of board during the first semester of 1923-1924 is $7.00 a week.

Living expenses for undergraduates who room and board in society houses or elsewhere may vary somewhat from the figures given above. The cost of furnishing dormitory rooms may be from $30 to $80 for each occupant. Laboratory fees are charged in some science courses, ranging from $4 to $25 for the year. The graduation fee is $10. An undergraduate's additional expenses will necessarily be governed by his tastes, resources, and appreciation of the value of money.

All college bills, including bills for board in Commons Hall, are payable semi-annually in advance. The Trustees instruct the Bursar to report the names of all undergraduates who at the end of the tenth day of each semester are delinquent in the payment of their fees, and the President is instructed to exclude such men from classes until payment is made. Absences thus incurred are not excused. Voluntary or careless damage done to college property is an extra charge to the individuals or classes responsible. If these are not known, the charge is assessed upon the whole undergraduate body, *pro rata*. No reduction in tuition fees is made for absence, either

in case an undergraduate returns to a class which he has left, enters late, is absent under discipline, or is dropped. No undergraduate may receive a degree or honorable dismissal whose college bills are unpaid.

Postal and Railway Service

The post-office address of the College is Clinton, N. Y.

The railroads are: the New York, Ontario & Western, Utica Division, and the New York State Railways (electric), Clinton line. Electric cars leave Utica at a quarter before and a quarter past the hour; they leave Clinton on the even hour and half-hour.

The usual express accommodations are provided by the American Railway Express Co., via the N. Y., O. & W. R. R.

All correspondence should be addressed to the President.

DEGREES, HONORS AND PRIZES
1922-1923

Degrees in Course

Bachelor of Arts

Oscar Theodore Barck, Jr., ΦBK
Clinton Congdon Bennett
Donald Andrews Bristoll
Harold Blake Burdick
Rickard Manning Burke
Albert Walter Campbell
Howard Henry Cannon
John Joseph Carusone
Harold George Castle
Cleveland Bruce Chase
Robert Hamilton Chastney
John Leslie Coe, ΦBK
John Howard Davies
Virgil Barzillai DeWitt
Edward Edwin Euler, ΦBK
Thomas John Evans
William Purviance Fenn, ΦBK
Roderick Hawley Fitch
Henry Louis George, Jr., ΦBK
Frank Edward Hunter
Charles Julian Kaiser, ΦBK
Charles Sumter Langtry
Elbert Lanrowitz
Charles Grant Loomis
John Niles Loveland, ΦBK
Philo Norton McGiffin
Franklin Thurber Mathewson
Fred Loren Palmer
Burton Scott Price
Alfred Laighton Seaver, Jr.
Chauncey Smith
Warren Gordon Spencer
Edwin Archibald Stuart, Jr., ΦBK
Vincent William Sweeney
Watson Massey Thompson
Max Chase Tillotson
Morton Tomlinson Walrath
Arthur Elton Warren, ΦBK
Frederic Decker Weld
Montague White
John Kent Willard
Jay Gomer Williams
Carlyle Edgar Yates, ΦBK

Bachelor of Science

James Philip Doane
John Shanley Fitzgerald
Richard Stoddard Fowler
Frank William Marlow, Jr., ΦBK
Joseph Thomas Mulchy
Richard George Raitt
Carl Vincent Warren

Master of Arts

Benjamin Dean Meritt

Honorary Degrees

Doctor of Divinity

Willard Philander Soper, Stamford, Conn.
Samuel Kempton Piercy, White Plains, N. Y.

Doctor of Laws

Theodore Chalon Burgess, Peoria, Ill.
Henry Harper Benedict, New York, N. Y.

Honors

Scholarship Honors for the Course

Class of 1923

Honor

Oscar Theodore Barck, Jr.
John Leslie Coe, *Valedictorian*
Edward Edwin Euler
William Purviance Fenn
Henry Louis George, Jr.
Charles Julian Kaiser
John Niles Loveland
Frank William Marlow, Jr.
Edwin Archibald Stuart, Jr., *Salutatorian*
Arthur Elton Warren
Carlyle Edgar Yates

Credit

Albert Walter Campbell
Harold George Castle
Charles Sumter Langtry
Elbert Lanrowitz
Fred Loren Palmer
Burton Scott Price
Alfred Laighton Seaver, Jr.
Warren Gordon Spencer
Max Chase Tillotson

Scholarship Honors for the Year 1922-1923

Class of 1923

High Honor: Messrs. Coe, Euler, Fenn, Kaiser, Lanrowitz, Stuart, A. E. Warren.

Honor: Messrs. Barck, Chase, George, Loveland, Marlow, Palmer, Price, Yates.

Credit: Messrs. Campbell, Davies, Hunter, Langtry, McGiffin, Seaver, Smith, Tillotson.

Class of 1924

HIGH HONOR: Messrs. Goslee, Nesbitt.

HONOR: Messrs. Albertson, Baer, Fuess, Grieve, Kittell, Olver, Riedel, Yule.

CREDIT: Messrs. Burroughs, Carusone, Marks, E. A. Smith, Steele, D. G. Thompson, F. H. Wood.

Class of 1925

HIGH HONOR: Messrs. Meritt, Soper, L. A. Wood.

HONOR: Messrs. Burke, Case, Chevraux, Connell, Gregory, Gualtieri, Kaiser, Perrine, P. G. Scott, Toaz.

CREDIT: Messrs. Allen, Clark, Farrell, Gardner, Harding, Knapp, Lehmann, Packer, Ralph, Sessions, Snyder, Watkins, Wayne, Wehnau, Wheeler.

Class of 1926

HIGH HONOR: Mr. Daymont.

HONOR: Messrs. Bohn, Chase, Chretien, DeLalla, Loder, Lonsdale, Schiro, Skinner, Young.

CREDIT: Messrs. Brazeau, Comstock, Guido, D. Paine, D. S. Payne, Robson.

Department Honors, Class of 1923

LATIN: John Leslie Coe, Edwin Archibald Stuart, Jr.

GERMAN: Edward Edwin Euler.

PHILOSOPHY: Charles Julian Kaiser, Fred Loring Palmer.

POLITICAL SCIENCE: Oscar Theodore Barck, Jr., Charles Julian Kaiser, Burton Scott Price, Alfred Laighton Seaver, Jr.

HISTORY: Edward Edwin Euler.

MATHEMATICS: John Leslie Coe, John Niles Loveland, Edwin Archibald Stuart, Jr.

Prizes

ROOT FELLOWSHIP: Henry Louis George, Jr.

CHAUNCEY S. TRUAX GREEK SCHOLARSHIP: No award.

EDWARD HUNTINGTON MATHEMATICAL SCHOLARSHIP: Frederick William Fuess, Jr.

ARTHUR W. SOPER LATIN SCHOLARSHIP: Howard Erwin Yule.

CHARLES HOLLAND DUELL GERMAN SCHOLARSHIP: Harvey Reginald Goslee.

OREN ROOT MATHEMATICAL SCHOLARSHIPS: Alexander Coburn Soper, III, Lawrence Arnell Wood.

SIXTY-EIGHTH CLARK PRIZE ORATION: Morton Tomlinson Walrath. The other appointees to the contest: Messrs. Chase, McGiffin.

SIXTIETH HEAD PRIZE ORATION: Robert Hamilton Chastney.

SIXTY-FIRST PRUYN MEDAL ORATION: No award.

FIFTY-FIRST KIRKLAND PRIZE ORATION: No award.

FIFTY-FIFTH MCKINNEY PRIZE DEBATE: *First,* Rickard Manning Burke; *Second,* John Leslie Coe. The other appointees to the contest: Messrs. Euler, Fenn, Williams, Yates.

THIRTY-FIRST SOPER PRIZE THESIS: No award.

WINCHELL PRIZE IN GREEK: Roderick Hawley Fitch.

CURRAN PRIZE IN GREEK AND LATIN: No award.

HAWLEY PRIZE IN GREEK: Herbert Dean Meritt.

HAWLEY PRIZE IN LATIN: John Pasquale Gualtieri.

BRANDT PRIZE IN GERMAN: Edward Edwin Euler.

TOWER PRIZE IN FRENCH: Elbert Lanrowitz.

TOWER PRIZE IN SPANISH: Max Chase Tillotson.

DARLING PRIZE IN AMERICAN HISTORY: Edward Edwin Euler.

PUTNAM PRIZE IN AMERICAN HISTORY: John Howard Davies.

UNDERWOOD PRIZE IN CHEMISTRY: Arthur Elton Warren.

SOUTHWORTH PRIZE IN PHYSICS: Edwin Archibald Stuart, Jr.

HOLBROOK PRIZE IN BIOLOGY: Frank William Marlow, Jr.

TOMPKINS MATHEMATICAL PRIZES: *First,* Frederick William Fuess, Jr.; *Second,* Donald Wilson Grieve.

KELLOGG ESSAY PRIZES:

Juniors: No award.

Sophomores: Subject, "The Mississippi River in American Fiction." *Prize,* John Dysert Gregory.

Freshmen: Subject, "The Rhodes Scholarships." *Prize,* Peter Bentley Daymont.

Subject, "The Personal Memoirs of Ulysses S. Grant." *Prize,* John Waddell Chase.

COBB ESSAY PRIZE: *Subject,* "The Decline of Editorial Influence in the American Newspaper." *Prize,* Fred Loren Palmer.

HUTTON ESSAY PRIZE: *Subject,* "The Jews under Roman Rule." *Prize,* Lawrence Arnell Wood.

MCKINNEY DECLAMATION PRIZES:

Juniors: First, Joseph Lester Albertson; *Second,* Francis Hunt Meehan.

Sophomores: First, Philip Gordon Scott; *Second,* Harold Friend Harding.

Freshmen: First, Harold Chester Bohn; *Second,* Frank Hudson Robson, Jr.

MAYNARD ENTRANCE PRIZE: *Class of 1926,* No award; *Class of 1927,* No candidate.

BROCKWAY ENTRANCE PRIZE: *Class of 1926,* No award; *Class of 1927,* No candidate.

VROOMAN PRIZE SCHOLARSHIP: No award.

FAYERWEATHER PRIZE SCHOLARSHIPS: No award.

REGISTRATION*

Fellow

George, Henry Louis, Jr. — Chaumont
Root Fellow in Science. In residence at Harvard University, Cambridge, Mass.

Candidate for the Degree of Master of Arts

Hasbrouck, Paul DeWitt — Poughkeepsie
Political Science, Economics

Seniors, Class of 1924

Albertson, Joseph Lester	*New Rochelle*	Δ K E House
Alison, Alexander, III	*Bridgeport, Conn.*	Δ K E House
Alison, Valentine Smith	*Bridgeport, Conn.*	Δ K E House
Baer, William Bush	*Peoria, Ill.*	4 C
Bates, Lounsbury Danforth	*Jamaica*	A Δ Φ Hall
Betts, Henry Brognard	*Summit, N. J.*	20 S
Brownell, Stewart Penfield	*Oneonta*	B K House
Brush, Fred Ernest	*Rome*	Θ Δ X House
Burroughs, George Franklin	*Seneca Falls*	6 S
Carusone, Louis Michael	*Saratoga Springs*	22 S
Cass, Levi Aldrich, Jr.	*Warsaw*	8 S
Cline, William Gage	*Endicott*	B K House
Culver, Romeyn Francis	*Towanda, Pa.*	B K House
Curran, Francis Eugene	*Canandaigua*	15 C
Durkee, Francis Munger	*Clinton*	Fountain Street
Embury, Philip Walker	*Warsaw*	Emerson Hall
Fowler, Robert DuBois	*Newburgh*	X Ψ Lodge
Friedlander, Herman Leo	*Binghamton*	1 S
Frost, Bruce Ledyard	*Carthage*	6 S
Fuess, Frederick William, Jr.	*Baldwinsville*	20 S
Gardner, Laurence Webster	*Warsaw*	23 N
Goslee, Harvey Reginald	*Jewett*	4 N
Grieve, Donald Wilson	*Perry*	Emerson Hall
Hamilton, Donald Allen	*Batavia*	Δ Υ House
Hazelden, Albert George	*Clinton*	Clinton
Heffron, Robert Kenyon	*Rochester*	Δ K E House

*C—Carnegie Hall. N—North College. S—South College.

Holley, John Milton, Jr.	*La Crosse, Wis.*	A Δ Φ Hall
Howe, John Quincey	*Albany*	Θ Δ X House
Johnson, William Warner	*Hudson*	X Ψ Lodge
Johntra, Harold Albert	*Flushing*	Y. M. C. A.
Jones, Arthur Thomas	*Rochester*	Δ Υ House
Jones, Donald	*Glencoe, Ill.*	Σ Φ Place
Kittell, Donald Davenport	*Jamaica*	Δ Υ House
Lent, Henry Bolles	*Elmira*	Σ Φ Place
Lewi, William Grant, Jr.	*Albany*	6 S
Lewis, Lloyd Griffith	*Remsen*	Emerson Hall
McGiffin, Nathaniel Hamilton	*St. Peter, Minn.*	Δ K E House
McHargue, Neal Errett	*Dunkirk*	9 S
Marks, George Aaron	*Old Forge*	Δ Υ House
Meehan, Francis Hunt	*New York*	Δ K E House
Moore, Leslie Ernest	*New York Mills*	Emerson Hall
Nesbitt, George Lyman	*Schenevus*	Emerson Hall
Olver, Paul Stevens	*Scranton, Pa.*	Y. M. C. A.
Potocki, Wladyslawas	*Utica*	9 S
Pottle, Willard Marsh	*Buffalo*	Σ Φ Place
Pritchard, William H., Jr.	*Johnson City*	B K House
Riedel, Frederick Carl	*Albany*	Θ Δ X House
Roemer, Leslie Lee	*Utica*	22 C
Smith, Edward Andrew	*West Kortright*	B K House
Steele, Wesley Irving	*Windham*	4 N
Thomas, David Maynard	*Remsen*	Emerson Hall
Thomas, Harold Alfred	*New Hartford*	19 N
Thompson, Durant George	*Old Forge*	Δ Υ House
Vail, Curtis Doughty	*Wappingers Falls*	20 N
Webb, Alan Ripley	*Newburgh*	Δ Υ House
Weeks, James Alwin	*White Plains*	16 S
Wood, Frank Higley, Jr.	*Chatham*	B K House
Wood, Richard Carver	*Clinton*	Prof. Wood's
Yule, Howard Erwin	*New Hartford*	Δ Υ House

Juniors, Class of 1925

Aitkin, Benjamin Thomas	*Niagara Falls*	4 S
Allen, Donald Hallenbeck	*Albany*	12 C
Baker, James Clinton Brockway	*Clinton*	Water Street
Bingham, Howard Murray	*Birmingham, Mich.*	14 S
Bitely, Orsemus Durward	*Clinton*	Emerson Hall
Brainard, Charles Green, Jr.	*Waterville*	Ψ Υ House

Braunton, William Henry Gifford	*Warsaw*	22 N
Briggs, Roger Halsey	*Utica*	26 S
Brown, Dillon Randall	*Norwich*	Ψ Υ House
Burke, James Bundy	*Summit, N. J.*	17 S
Case, Lynn Marshall	*Utica*	Emerson Hall
Chevraux, Eugene Walter	*Canton, O.*	19 C
Clark, Robert Knight	*Peekskill*	30 S
Connell, Leroy Hyler	*Waterloo*	21 C
Croasdaile, Cameron	*Canton, O.*	18 C
Davies, Theodore Roosevelt	*Camden*	Ψ Υ House
Dowdell, Philip Higbee	*Brooklyn*	Α Δ Φ Hall
Duff, Elmer Potter	*Chicago, Ill.*	9 C
Ellis, Roy Alexander	*Washington, D. C.*	5 N
Farrell, James Irving	*Whitesboro*	10 C
Flagg, Gordon Knight	*Albion*	Ψ Υ House
Fleischmann, J. Dudley	*Hamburg*	2 N
Foley, Arthur Thomas	*Thendara*	22 C
Gardner, John Eugene	*Crisfield, Md.*	28 S
Garypie, Rudolph Siegfried	*Sag Harbor*	7 N
Gray, Clinton Newman	*Niagara Falls*	11 S
Gregory, John Dysert	*Morganton, N. C.*	29 S
Griffiths, John Thomas	*New Hartford*	22 C
Gualtieri, John Pasquale	*Rome*	19 S
Hallock, Halsey Young	*New York*	17 C
Harding, Harold Friend	*Niagara Falls*	11 S
Hastings, Harold Hunt	*Saratoga Springs*	16 C
Hastings, Jack Eastwood	*Syracuse*	16 C
Hatch, John Ruggles	*Belle Harbor*	Χ Ψ Lodge
Hays, David Douglas	*Johnstown*	Ψ Υ House
Hoyt, William Fenn	*Middleport*	13 C
Johnson, Francis William, Jr.	*Buffalo*	2 C
Kaiser, John Francis	*New Rochelle*	1 C
Kittell, George Henry	*Jamaica*	19 C
Knapp, Burton Marhaver	*Ilion*	Emerson Hall
Kutz, Joseph Harrison	*Binghamton*	23 S
Laurin, Emil Ferdinand Paul	*Johnstown*	8 C
Lehmann, Alan Dunning	*Buffalo*	7 C
McMasters, John Parkhurst	*Bath*	13 S
Mahannah, Morris Barnum	*North Tonawanda*	24 C
Meritt, Herbert Dean	*Vernon*	12 S
Montgomery, Bernard Alfred	*Utica*	21 C
Morris, Robert Edward	*Utica*	18 S

Ogilvie, John William Greene	*Oscawana-on-Hudson*	X Ψ Lodge
Packer, Wilfred Taylor	*Norwich*	7 N
Perrine, George Hasbroucq	*Centralia, Ill.*	Ψ Υ House
Perry, Charles Weaver	*Greenfield, Mass.*	12 S
Ralph, Richard James	*Richfield Springs*	15 N
Roberts, Owen Arthur	*Utica*	26 S
Robinson, Philip Edmund	*Scranton, Pa.*	X Ψ Lodge
Rogers, Francis Edward	*New Rochelle*	5 S
Scott, Charles Clayton	*Brooklyn*	Ψ Υ House
Scott, Philip Gordon	*Mt. Vernon*	11 S
Scovel, Frederick Gilman	*Cortland*	13 C
Seelye, Burt Murdock	*White Plains*	Δ K E House
Sessions, Gilman Lyman	*Tompkinsville*	17 S
Shellman, Alexander	*Davenport*	Emerson Hall
Snyder, Glenn Babcock	*Albany*	19 S
Soper, Alexander Coburn, III	*Santa Barbara, Cal.*	13 S
Steel, Richard	*New Rochelle*	20 C
Thomas, Charles Edington	*Waterloo*	Chapel
Thompson, Andrew Russell	*Jamaica*	Θ Δ X House
Thompson, Richard Ellsworth	*Kings Park*	Θ Δ X House
Toaz, John Clark	*Huntington*	X Ψ Lodge
Towne, Deidrich Earle	*Interlaken*	B K House
Valentine, Harvey Hildeth	*Patchogue*	14 C
Valentine, Joseph Craft	*Patchogue*	14 C
Watkins, Kenneth James	*Camden*	8 N
Wayne, Archibald Pepper	*Johnstown*	8 C
Wehnau, Raymond Madison	*Hagaman*	22 N
Wheeler, Marshall Willard	*Clinton*	McBride Avenue
Williams, Foster Henry	*Newton Center*	Ψ Υ House
Wood, Lawrence Arnell	*Peekskill*	24 C
Yates, Harry Douglas	*Buffalo*	12 S

Sophomores, Class of 1926

Anthony, Charles Herbert	*Gouverneur*	10 S
Bebee, George Hastings	*Buffalo*	14 S
Bohn, Harold Chester	*Dumont, N. J.*	24 S
Brazeau, Willoughby Francis	*Utica*	23 S
Breen, Arthur William	*Utica*	Ψ Υ House
Brush, Raymond Allen	*Huntington*	Ψ Υ House
Button, Ernest David, Jr.	*Ithaca*	11 C
Bye, Donald Cameron	*Lakewood, N. J.*	Ψ Υ House

Chase, John Waddell	*Clinton*	Σ Φ Place
Chretien, Charles Douglas	*Yonkers*	24 C
Cochran, Chester Archibald	*Roscoe*	25 N
Collins, Tobias John	*Mexico*	3 C
Comstock, Doane Chichester	*Brewster*	8 S
Conklin, Harry Irving	*Richfield Springs*	15 N
Courteau, Arthur George	*Clinton*	Prof. Wood's
Crane, Philip Joseph	*Clinton*	College Hill
Daymont, Peter Bentley	*Utica*	Chapel
de Lalla, Emanuel	*Utica*	22 S
Doty, Elverton Walrath	*Ilion*	30 S
Dowling, Walter Murray	*Utica*	13 N
Dunbar, Merton Clement, Jr.	*Elmira*	13 N
Eaton, George Samuel	*Lyons Falls*	24 S
Esch, Mark Fidel	*LaCrosse, Wis.*	3 C
Fahrenholz, Francis Joseph	*Spring Valley*	3 N
Freeman, William Hazen, Jr.	*Brooklyn*	14 C
Fulton, Albert Rondthaler	*Syracuse*	21 S
Gifford, Malcolm Eugene	*Whitesboro*	15 C
Guido, Rocco Dominick	*Whitesboro*	9 N
Holley, Henry Newell	*LaCrosse, Wis.*	7 C
Holmes, Rexford Charles Stilson	*Walton*	Θ Δ X House
Hooper, William Stickney	*Oshkosh, Wis.*	3 C
Hutchens, John Kennedy	*Missoula, Mont.*	Σ Φ Place
Ireland, Maurice Stratton	*Norwich*	Ψ Υ House
Kane, Vincent Joseph	*Poughkeepsie*	17 N
Katz, Joseph Louis	*New Rochelle*	23 S
Kirby, Thomas Austin, Jr.	*Albion*	Ψ Υ House
Ladd, Thyril Leone	*Batavia*	Emerson Hall
Lenz, George Barton	*Gloversville*	Ψ Υ House
Lonsdale, Alan	*Glen Rock, N. J.*	30 S
Lyon, Leland Douglass	*Glens Falls*	21 S
Marquardt, Hollister Williams	*Dayton, O.*	24 C
Merwin, John Avery	*Canastota*	2 C
Michels, Harold John	*Whitesboro*	10 C
Montgomery, Verne Immen	*Scarsdale*	5 C
Nichols, Frank Churchill	*Jamaica*	Chapel
Nichols, Orlo Roys	*Utica*	19 N
Nicholson, Walter Wicks, Jr.	*Syracuse*	Ψ Υ House
Ogden, William Hall	*Ithaca*	9 C
Orcutt, Brent Good	*S. Orange, N. J.*	23 C
Paine, David	*Syracuse*	5 C

Payne, Deming Sarles	*Liberty*	6 C
Pope, Willard Bissell	*Detroit, Mich.*	11 C
Pucillo, Delafield Philip	*Tuxedo Park*	17 N
Rathbun, Herbert Douglass	*Phelps*	28 S
Richards, Frank Edwards	*Phoenix*	1 C
Ricketts, Thomas Edwin, II	*Johnstown*	Ψ Υ House
Robbins, David Hiram	*Frankfort*	19 N
Robinson, Stuart William	*Springfield, Ill.*	29 S
Robson, Frank Hudson, Jr.	*New York*	23 C
Schiro, George	*Utica*	9 N
Selch, Grant Melville	*Round Lake*	8 N
Shenier, Charles	*Grantwood, N. J.*	3 N
Shields, Thomas Albert	*Syracuse*	21 S
Skinner, Burrhus Frederick	*Scranton, Pa.*	24 S
Squier, Joel Hyde	*New York*	18 C
Stanley, George Wilkinson	*Clinton*	Ψ Υ House
Taylor, Paul Reed	*Penn Yan*	5 S
Turnbull, John Gordon	*Pittsburgh, Pa.*	Ψ Υ House
Van Vleet, Gilbert Leslie	*East Orange, N. J.*	16 C
Vogel, Joseph	*Utica*	1 S
Vought, Kenneth Ellsworth	*Freeport*	21 C
Walbridge, John William	*Oxford*	7 S
Wallace, Harry Ormonde	*Vincennes, Ind.*	Σ Φ Place
Walrath, Alphonso Barber	*Fort Plain*	Α Δ Φ Hall
Williams, Abraham David	*Clinton*	Kellogg Street
Yeckel, John Maxwell	*Utica*	Prof. Fancher's
Young, Harvey Gordon	*Warren*	25 N

Freshmen, Class of 1927

Allen, Gregsten	*Hinsdale, Ill.*	2 C
Allen, John Ballard	*Clinton*	10 C
Amos, Robert Jacob	*Watertown*	Ψ Υ House
Anderson, Frank Morris	*Callicoon*	3 S
Andrews, Warren Blatchley, Jr.	*Newburgh*	24 N
Baker, Jack Stuart	*Syracuse*	Δ K E House
Bald, Ian James	*Warsaw*	Emerson Hall
Barnes, Noah Thomas	*Ossining*	Δ Υ House
Beardsley, Hulbert Ten Eyck, Jr.	*Fanwood, N. J.*	Α Δ Φ Hall
Belden, Burton Chandler	*Fredonia*	Emerson Hall
Bender, James Frederick	*St. Louis, Mo.*	Emerson Hall
Bookhout, Hamilton Hall	*Utica*	Χ Ψ Lodge

Bowers, George Thomas	*Rome*	15 S
Brink, Ebenezer Cobb	*Elizabeth, N. J.*	X Ψ Lodge
Britten, Sidney Adams	*Syracuse*	28 N
Browne, Arthur Westgate	*Ithaca*	4 C
Burgess, William Norman	*Utica*	Mr. A. Miller's
Burns, Vincent Thomas	*Clinton*	Fountain Street
Capron, Wiley Joseph	*Wayland*	Ψ Υ House
Clark, Lloyd Webber	*Oriskany Falls*	2 S
Covert, George Alfred	*Rockville Center*	B K House
Crist, Clifford Mortimer	*Montgomery*	N
Crocker, Lindsley Holmes	*Batavia*	15 S
Davenport, Winthrop	*Clinton*	Prof. Davenport's
Davis, Carleton Holmes	*Buffalo*	Ψ Υ House
Dayton, Amos Warren	*Auburn*	X Ψ Lodge
Depfer, Fay Roeder	*Elmira*	22 S
Doane, Robert Goodier	*Clinton*	X Ψ Lodge
Dold, Albert William	*Buffalo*	7 C
Donohue, Thomas Walter	*Utica*	19 S
Ferris, Gilbert Ellison	*Utica*	9 C
Fineour, Frederic Kenneth	*Fort Plain*	22 N
Fisher, Clifford Van Voorhees	*North Tarrytown*	B K House
Fletcher, Ervin	*Clinton*	Harding Road
Foley, James Patrick	*Thendara*	15 C
Forshay, Frederick Henry	*Glen Ridge, N. J.*	Δ K E House
Fradenburgh, Adelbert Edson	*Brooklyn*	X Ψ Lodge
Fuess, James Turnbull	*Baldwinsville*	25 S
Gillespie, James Carroll	*White Plains*	Σ Φ Place
Goodwin, Coburn Proctor	*Rochester*	Δ K E House
Gray, Edward LeBreton	*Rochester*	Δ K E House
Groff, Arthur Logan	*Rochester*	Δ K E House
Hallock, Addison Howard	*New York*	17 C
Halwig, Stuart Evans	*Utica*	20 C
Hewlett, Calvin Willers	*Interlaken*	B K House
Hickok, Thomas Anderson	*Aurora*	Ψ Υ House
Hinke, Karl Henry	*Auburn*	Ψ Υ House
Hirshheimer, Albert	*LaCrosse, Wis*	Θ Δ X House
Howe, John Hanna	*Valatie*	27 N
Howell, Richmond	*Syracuse*	21 N
Howk, Marvin Hildreth	*Rochester*	4 C
Hoyt, Norris Hulbert	*Middleport*	Δ Υ House
Huston, George William	*Brooklyn*	Σ Φ Place
Jenkins, John William, Jr.	*Canandaigua*	3 S

Jones, Frank Adelbert	*Rochester*	Δ Υ House
Kelly, John Dennis	*Utica*	Ψ Υ House
King, Henry Jackson	*Binghamton*	B K House
Kirby, John Pendy	*Albany*	7 N
LeFever, Kenneth Hutton	*Kingston*	Δ Υ House
Lewis, Albert John	*Utica*	Δ K E House
Lindsay, John Stuart, Jr.	*New York*	Θ Δ X House
Lyons, Leon Hunter	*Binghamton*	1 N
McGregor, Robert Gardner, Jr.	*New Rochelle*	12 C
McGuire, Thomas Lynn	*Utica*	B K House
McKernan, Charles Patrick	*Utica*	Δ Υ House
MacLean, Charles William	*Brooklyn*	Θ Δ X House
McMartin, Daniel Malcolm	*Johnstown*	8 C
Mack, Frederick	*New York*	11 N
Maddock, Robert Kent	*Denver, Colo.*	X Ψ Lodge
Mangan, Charles Everts	*Binghamton*	4 S
Mann, John Enders	*Milwaukee, Wis.*	6 C
Mann, Nathaniel, II	*Pelham Manor*	X Ψ Lodge
Marcus, Hyman	*Salem, Mass.*	27 S
Marquardt, Frederic Sylvester	*Dayton, O.*	Emerson Hall
Martin, Edward Christy	*New York Mills*	Emerson Hall
Meloche, Elmer Joseph	*Binghamton*	23 N
Mitchell, Arvid Folsom	*Little Falls*	18 N
Mitchell, Frederick Hendee	*Buffalo*	Σ Φ Place
Mitchell, Lawrence Hendee	*Buffalo*	Σ Φ Place
Mulford, Raymond Anthony	*Binghamton*	B K House
Mulligan, William George, Jr.	*Palisade, N. J.*	Θ Δ X House
Nelson, Austin Joseph	*Old Forge*	College Street
Noveraz, Henry Harold	*Clinton*	Clinton
O'Connell, Edmund Fabian	*Boston, Mass.*	10 S
Olmsted, Clarence Edwin	*Worcester*	Emerson Hall
Osborne, Clark Platt	*Clinton*	College Street
Patrick, John Henry	*Auburn*	9 S
Phillips, Lynn Archie	*Oriskany*	11 N
Pickard, Darwin Rutherford	*Watertown*	Ψ Υ House
Pierce, Daniel Anderson	*Syracuse*	Δ Υ House
Potocki, Stanislaus John	*Utica*	9 S
Preston, Keith Burdick	*Utica*	B K House
Pughe, Gerald Grant	*Waterville*	21 N
Quinn, William H., Jr.	*Schenectady*	Δ Υ House
Raynor, Theodore Earl	*Westfield*	24 N
Robinson, Reuben Carl	*Greenfield Center*	12 N

Rose, William Wagner	*Canton, O.*	5 N
Ryan, John William, Jr.	*Buffalo*	2 N
Sanborne, Leon Drake	*Elmira*	11 N
Sarcka, Andrew Astor	*Proctor, Vt.*	Prof. Morrill's
Savage, George Brooks	*Churchville*	Θ Δ X House
Savercool, George Walton John	*Johnson City*	B K House
Sayres, Philip Cooke	*Brooklyn*	Σ Φ Place
Sheppard, Ralph Wyman	*Boise, Ida.*	X Ψ Lodge
Slaughter, George Wellington	*Walkill*	8 S
Slauson, William Charles	*Utica*	Ψ Υ House
Smith, Cortland Gray	*Southampton*	Emerson Hall
Snyder, John Hayden	*Utica*	Ψ Υ House
Sparhawk, George Francis, Jr.	*Beaver, Pa.*	Θ Δ X House
Springmann, Glenn Wilbur	*Glen Cove*	Δ Υ House
Stahl, John	*Dayton, O.*	Emerson Hall
Stanley, Edward Wilkinson	*Clinton*	Ψ Υ House
Stanley, Ralph Benckerd	*New York*	Δ Υ House
Stone, John Lester	*Brooklyn*	X Ψ Lodge
Strong, Donaldson Stevens	*Pelham*	25 S
Strong, William Husted	*Yonkers*	Δ Υ House
Stuart, Paul Roberts	*Montgomery*	Emerson Hall
Thomas, Robert John	*Auburn*	Emerson Hall
Thyne, William Robert	*Johnstown*	8 C
Townsend, Alden Jelliff	*Greenfield*	10 N
Tyler, Boyden	*Canandaigua*	10 S
Tyler, George Grayson	*Bellaire, O.*	Emerson Hall
Tyne, Roger Charles	*Binghamton*	16 N
VanValkenburgh, Clinton Dewitt	*Catskill*	9 Chestnut Street
Virkler, Michael Carleton	*Castorland*	B K House
Wakerly, Homer Vincent	*New York*	1 N
Weed, Garner Rieck	*Binghamton*	Σ Φ Place
Wheeler, Albert Leighton	*Middleport*	Δ Υ House
Whitbeck, Earl Cranston	*Albany*	Α Δ Φ Hall
Wiggins, Arthur, Jr.	*New Rochelle*	B K House
Wilcox, Frank Gregory	*Asbury Park, N. J.*	12 N
Williamson, Richard Packard	*Niagara Falls*	2 S
Wylie, Max Melville	*Montclair, N, J.*	Δ Υ House
Wyman, Ellsworth	*Little Falls*	16 S
Young, George Chandler	*Napanoch*	10 N

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